

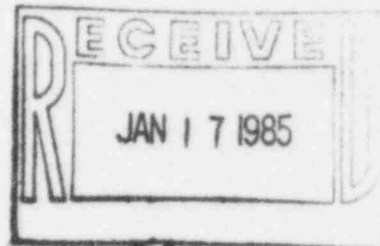


DMB
KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

January 10, 1985

Mr. Robert D. Martin
Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011



KMLNRC 85-014
Re: Docket No. STN 50-482
Ref: KMLNRC 84-420, dated 12/31/84 from
GLKoester, KG&E to RDMartin, NRC
Subj: FSAR Commitment Compliance Study

Dear Mr. Martin:

The Reference provided a report documenting the completion of the FSAR review activities associated with the Wolf Creek Preoperational Test Program. The Reference committed to the completion of a similar indepth commitment compliance review of the Initial Startup Test Program. The attached report documents the results of this second review activity.

Yours very truly,

Glenn L. Koester
Vice President-Nuclear

Attach

GPR:dab

xc: W. Guldemon
H. Bundy
P. O'Connor
R.P. Denise

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INTEROFFICE CORRESPONDENCE

TO: Gary D. Boyer
FROM: William B. Norton
DATE: January 8, 1985
SUBJECT: Initial Startup Test Program Commitment/Compliance Report

KWOLKWO 85-016

In order to ensure the WCGS Initial Startup Test Program complies with all the various commitments, an extensive review of the documents containing commitments has been performed. The results of this review are compiled in this report.

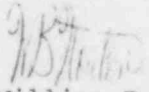
The following documents were reviewed to identify initial startup program commitments:

- 1) The FSAR excluding Chapters 1, 2, 13, 16 and 17. These chapters were excluded because they cover topics not associated with the startup test program.
- 2) Chapter 14 of the FSAR, which contains startup test abstracts, was reviewed line by line to identify each commitment.
- 3) The FSAR site addendum excluding the same chapters identified in (1) above.
- 4) Regulatory Guide 1.68.
- 5) Volume 11 of the FSAR (NRC Questions and Correspondence).
- 6) Safety Evaluation Report (SER).
- 7) The preoperational test program FSAR commitment compliance report was also reviewed. The items in the preop report with responsibility assigned to the initial startup program were included as commitments.

The attached tables are a summary of commitments identified in the above documents. Also included in these tables are the corresponding test procedures that satisfy the commitment. An additional column entitled "NOTE" has been included for clarification: please refer to the Footnote table to identify the meaning of each number used in the column.

The WCGS procedures will be reviewed against the available companion Callaway procedures. Test change notices, test deficiencies and notes and comments will be incorporated into WCGS procedures as appropriate. The procedures will also be revised to incorporate references to plant operating procedures where deemed appropriate.

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January 8, 1985
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William B. Norton
Reactor Engineering Supervisor

WBN/bss

cc: F. Rhodes
G. Boyer

Notes and Symbols

The following notes and abbreviations were used in compiling the following tables:

- Document - identifies the document and paragraph number where a commitment was found.
- PG - identifies what page in the above document where the commitment was located.
- Type - used to identify the type of commitment for the test abstract review, such as OB for objectives, TI for title, AC for acceptance criteria, PR for prereqs, TM for test method. Also need to identify multiple commitments in the same paragraph number.
- Commitment - a 40 character paraphrase of the commitment found in the document identified above.
- Procedure - identifies the procedure which meets or complies with the associated commitment.
- Section(s) - identifies the section or step of a procedure which complies with the commitment.
- Note - identifies additional notes or comments about the commitment or compliance as shown in the Footnote table.

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
10.0			CHAPTER 10 -- No Commitments			
11.0			CHAPTER 11 -- No Commitments			
12.0			CHAPTER 12			
12.3.4.1.2.6	22		Area rad monitors calibrated			8,33
14.0			CHAPTER 14			
14.2.1	1	(1)	Testing done in 3 phases.	SU7-S008	1.1	
14.2.1	1	(2)	Preop testing prerequisite.	SU7-S008	5.1	
14.2.1.2	2a	(a)	Site fuel loading.	SU7-0001	All	3
14.2.1.2	2a	(b)	Safe criticality.	SU7-0002	All	3
14.2.1.2	3	(c)	Low pwr testing confirms safety analysis	ADM 01-070	4.2.2	3
14.2.1.2	3	(d)	Safe power ascension tests.	SU7-S008	A.1	
14.2.1.2	3	(e)	Test transient & accident conditions.	ADM01-070	4.2.4	3
14.2.10.1	7	(1)	Plant Supt. resp. for fuel load coord.	ADM 05-600	4.1.1	
14.2.10.1	7	(2a)	Licensed SRO directs fuel load	SU7-S009	4.1	
14.2.10.1	7	(2b)	SRO has no other responsibilities.	SU7-S009	4.1	
14.2.10.1	8	(1)	Alternate core config. if appv. by West.	SU7-0001	9.2.1	
14.2.10.1	8	(2)	Proc. specify boron concentration.	SU7-S009	6.1.1	3
14.2.10.1	8	(3a)	Procedure specifies safe fuel movement.	SU7-0001	6.5	3
14.2.10.1	8	(4)	Core loading conditions.	SU7-0001	All	3
14.2.10.1	8	(5b)	Resp. for core component accountability.	ADM 05-600	5.3.1b	
14.2.10.1	8	(5c)	Authority for fuel accountability.	ADM 05-600	4.1.4	3
14.2.10.1	8	(6)	Containment structure /ILRT complete.	SU7-S008	5.1.1	
14.2.10.1	8	(7)	Fuel handling tools checked out.	SU7-S009	5.9	

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
14.2.10.1	8	(8)	Operators familiar w/fuel handling equip			7
14.2.10.1	8	(9)	Insp. of fuel assy, RCCA's & RV complete	SU7-S009	5.15	
14.2.10.1	8	(10)	RV & components ready for fuel receipt.	SU7-S009	5.2	3
14.2.10.1	8	(11)	Water level above nozzle bottom	SU7-S009	5.9	
14.2.10.1	8	(12)	Boron concentration can be increased.	SU7-S009	4.4	
14.2.10.1	8	(13)	Fuel load stops when n count rate double	SU7-S009	4.1.2	
14.2.10.1	8	(14)	Fuel load stop when CR inc. by 5 factor.	SU7-S009	4.1.1	
14.2.10.1	8	(15)	Fuel load stop when boron conc ~20 ppm.	SU7-S009	4.1.3	
14.2.10.1	8	(16)	Load commences only after evaluation.	SU7-S009	4.1	
14.2.10.1	8	(17)	Alarm in cont., CR from SR.	SU7-S009	4.1.5	
14.2.10.1	9	(1)	High CR alarm, stop load until evaluated.	SU7-S009	4.1	
14.2.10.1	9	(2)	Core assembled in RV w/Keff < 0.95.	SU7-S009	4.4	
14.2.10.1	9	(3)	RV chemistry monitored during fuel load.	SU7-S009	5.10	
14.2.10.1	9	(4)	Min. 2 sources in core to ensure 2 CPS.	SU7-S009	4.1.8	
14.2.10.1	9	(5)	Perm. & temp. NIS SR used.	SU7-SC01	All	3
14.2.10.1	9	(6)	One perm. channel equipped w/audio ind.	SU7-CC02	4.4	
14.2.10.1	9	(7)	One temporary channel on recorder.	SU7-0001	3.1	
14.2.10.1	9	(8)	Min CR of 2 on 2/4 channels - fuel load	SU7-S009	4.2	
14.2.10.1	9	(9)	Response check 8hrs prior to core load.	SU7-0001	4.14	
14.2.10.1	9	(10)	Response check 8hrs before resump of FL.	SU7-0001	4.14	
14.2.10.1	9	(11)	Load fuel assy individually in appv seq.	SU7-0001	6.5	
14.2.10.1	9	(12)	Status board maintained during core load	SU7-0001	5.7	
14.2.10.1	9	(13)	Init nuc of 8 assy, 1 source w keff < 0.95	SU7-S009	4.4	
14.2.10.1	9	(14)	Each assy. accom. by CR & ICRR monitor	SU7-0001	4.10	
14.2.10.1	9	(15)	Final configuration Keff < 0.95.	SU7-S009	4.4	

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
14.2.10.2	10	(a)	RV press test, venting.	STS PE-40		
14.2.10.2	10	(b)	CRDM mechanical, electrical & DRPI tests	SU7-SF04	All	3
14.2.10.2	10	(c)	Rx manual trip circuits checked.	SU7-SF03.X	6.0	X=1-4
14.2.10.2	10	(C)1	Rod drop times measured.	SU7-SF03.2	All	3
14.2.10.2	10	(C)2	Boron per Tech Spec's during RCCA tests.	SU7-SF03.2	5.5	3
14.2.10.2	10	(e)3	SR monitored during RCCA tests.	SU7-SF03.2	4.4	3
14.2.10.2	10	(d)	Rx control/protect trip signals checked.	SU7-SF05	All	3
14.2.10.2	10	(e)	Func. check of flux mapping at NOT, NOP	SU7-SR01	All	3
14.2.10.2	11	(1)	Crit.thru Rod withdrawal & boron dilut.	SU7-0004	All	--
14.2.10.2	11	(2)	Conditions, precautions spec. by proc.	SU7-0003	All	3
14.2.10.2	11	(3)	Initially Control Rod withdrawn.	SU7-S011	6.3.11	
14.2.10.2	11	(4)	Boron diluted to achieve criticality.	SU7-S011	4.8	
14.2.10.2	11	(5)	Monitor boron concentration during crit.	SU7-S011	4.8	
14.2.10.2	11	(6)	ICRR plotted as func of RP & Boron conc.	SU7-0002	All	
14.2.10.3	11	T1	Low Power Testing			
14.2.10.3	11	(1)a	Rx physics meas. after init. crit.	SU7-0005	All	
14.2.10.3	11	(1)b	Verify static/kinetic characteristics.	SU7-0005	All	
14.2.10.3	11	(2)	Proc. specify sequence & measurements.	ADM01-070	5.2.2	3
14.2.10.3	11	(3)	Plant in Safe Cond.-if test res. deviate	ADM 01-070	5.3	
14.2.10.3	11	(4)	Rod Worth Measurements	SU7-SF09	All	3
14.2.10.3	11	(5)	Isothermal temperature coefficient.	SU7-000	All	
14.2.10.3	11	(6)	Boron concentration worth	SU7-0006	All	
14.2.10.3	11	(7)	Relative power distribution	SU7-SR01	All	3
14.2.10.3	11	(8)	Concurrent instrumentation tests.	SU7-SE01	All	3
14.2.10.3	12	(1)	Radiation surveys performed.	SU7-0016	All	

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
14.2.10.3	12	(2)	RCS chemical sampling.	SU7-SJ01	All	
14.2.10.4	12	T1	Power Level Ascension.			
14.2.10.4	12	(1)	Hold points provided to evaluate results	SU7-S008	9.2	
14.2.10.4	12	(2)	Min. tests specified by procedures.	SU7-S008	6.0	
14.2.10.4	12	(3)	Relative power dist fn of power level	SU7-SR01	A11	3
14.2.10.4	12	(4)	Secondary heat balance cross-cal.	SU7-SE02.4	6.6	3
14.2.10.4	12	(5)	Ability of RCS to respond to instr.	SU7-SF05	ALL	3
14.2.10.4	12	(6)	Primary / secondary dynamic response.	SU7-0009	ALL	3
14.2.10.4	12	(7)	System response char. meas.	SU7-0010	ALL	3
14.2.10.4	12	(8)	Rad-shield adequacy verified.	SU7-0016	ALL	
14.2.10.4	12	(9)	RCS Chemical sampling.	SU7-SJ01	ALL	
14.2.11	12		Test Program Schedule	SU7-S008	ATT.	
14.2.11	12	(1)	Detailed schedules prepared.	SU7-S008	4.2.4	
14.2.11	12	(2)	Docum. review of pre-op tests performed.	SU7-S008	5.1.1	
14.2.11	12	(3)	S/U proc avail 60 days before fuel load.	-----	-----	7
14.2.3	3	(1)	Test reviews 60 days before fuel load.			7
14.2.3	3	(2)	Controls & methods described by adm proc	ADM01-070	All	
14.2.3.1	3	(1)	Format & content per RG 1.68.	ADM 07-100	101	
14.2.3.1	5	(2)	Sections signoff's, initial control proc	ADM01-070	5.4.3	
14.2.3.1	5	(3)	Procedures prepared w/latest design.	-----	-----	7
14.2.3.1	5	(4)	Procedures reviewed by design org.	ADM07-100	5.1.1.1	
14.2.3.1	5	(5)	Change based on approved design changes.	-----	-----	7
14.2.3.2	5	1	Proc tech.reviewed by utility personnel.	ADM 07-100	5.1.1.1	
14.2.3.2	5	1(a)	Reviewed for accuracy & technical content.	ADM 07-100	5.1.1.1	
14.2.3.2	5	1(b)	Ensure design changes incorporated.			3,25

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
14.2.3.2	5	1(c)	Proc. compatible w/field installation.			3,25
14.2.3.2	5	1(d)	Conformance to FSAR & Tech. Specs.	ADM01-002	3.1	
14.2.3.2	5	1(e)	Review similar oper & test experiences.			7
14.2.3.2	6	(2)	Committee performs final review.	ADM 07-100	4.2	3
14.2.8	6		Use of Rx operating & testing experience	ADM-01-031		
14.2.9	7	(1)	Plant operating procedures.	N/A		
14.2.9	7	(2)	Surveillance test demonstration.	ADM 02-300	All	
15.0			CHAPTER 15			
15.0.6	10		Instrument time delays	TECH SPECS	3.3.1	3
3.0			CHAPTER 3			
3.1.6	29		ECCS testing	SU3-EMUX		
3.9(B).2.1	5		Turbine stop valve instr during trip	SU7-0015	6.4	
3.9(B).2.1	6		Thermal expansion test	SU7-0015	6.0	
3.9(N).4.4	62		CRDM trip time	SU7-SF03.X	6.0	X=1-4
4.0			CHAPTER 4			
4.2.2.3.3	18		Four source assemblies	SU7-0001	6.0	
4.2.4.3	39		CRDM testing (see Reg Guide 1.68)	SU7-SF0X	6.0	X=1-4
4.4.5.3	45		LPMS calibration	SU9-SQ02		
6.0			CHAPTER 6			
6.3.4.2.1	32		SI check valve tested before startup	STS EP-205		
7.0			CHAPTER 7			
7.2.2.2.2		OB	Full flow ref established during iri S/U	SU7-BB03	6.1.2.1	
7.2.2.3.2	32	(1)	Accuracy of RTD's demonstrated	SU7-BB06.1	6.0	
7.2.2.3.2	32	(2)	Linearity of delta T measurements chk'd	SU7-SF06	6.0	
7.2.2.3.2	32	(3)	RTD signals compared with core exit T/C	SU7-BB06.1	6.0	

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
8.0			CHAPTER 8			
8.3.1.1.2	7		Thermal overload relays bypassed on MOVs			7
9.0			CHAPTER 9			
9.3.1.4	6	(1)	ESF components tested for fail-safe oper			11
9.5.9.4	3	(1)	Testing of the Aux Steam prior to S/U	SU3-ALOX		x=2,5

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Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
14.2.12.3.1	153	TI	INITIAL CORE LOADING	SU7-0001	-----	
14.2.12.3.1.1a	153	OB	Load fuel	SU7-0001	6.0	
14.2.12.3.1.1b	153	OB	Measure Boron concentration	SU7-0001	6.1.3.1	
14.2.12.3.1.2a	153	PR	Sufficient preop testing completed	SU7-0001	5.16.1	
14.2.12.3.1.2b	153	PR1	STS are completed	ADM 02-300		
14.2.12.3.1.2b	153	PR2	Necessary systems are operable	SU7-0001	5.16.1	
14.2.12.3.1.3	153	TM	Step by step core load sequence	SU7-0001	6.2	
14.2.12.3.1.4	153	AC2	Boron concentration is as specified	SU7-0001	6.1.3.1	
14.2.12.3.1.4	153	AC1	Permanent record of as loaded core	SU7-0001	9.2.1	
14.2.12.3.2	154	TI	Inv Count Rate Ratio for core load.	SU7-0002	-----	
14.2.12.3.2.1a	154	OB	Obt nuc monitor data dur init core load	SU7-0002	6.0	
14.2.12.3.2.1b	154	OB	Prevent criticality during core loading	SU7-0002	1.3	
14.2.12.3.2.2a	154	PR	Temp & Plant SRNI op min 4hrs for op.	SU7-0002	U	
14.2.12.3.2.2b	154	PR	Plant ready for initial core load	SU7-0001	5.0	
14.2.12.3.2.3	154	TM1	Monitor NI data to access safety.	SU7-0002	4.0	
14.2.12.3.2.3	154	TM2	Inv count eval to prev dev from subcrit	SU7-0002	6.5.2	
14.2.12.3.2.3	154	TM3	Core kept in subcrit config dur coreload	SU7-0002	4.5	
14.2.12.3.2.4	154	AC	Load core w/o achieving criticality.	SU7-0002	9.1.1	
14.2.12.3.3	155	TI	Inv CRR mon for init criticality	SU7-S011	6.3	
14.2.12.3.3.1a	155	OB	Obt nuc mon data dur init criticality	SU7-S011	6.3	
14.2.12.3.3.1b	155	OB	Anticipate & determine criticality	SU7-S011	6.3	
14.2.12.3.3.2a	155	PR	SR&IR alarm, trip, indication checked	SU7-S011	5.9	
14.2.12.3.3.2b	155	PR	SI&IR nuc ch energized min 4hrs for op	SU7-S011	5.9	
14.2.12.3.3.3a	155	TM1	Ob BLC prior to rod w/draw & boron dil	SU7-S011	6.3.7	

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Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
14.2.12.3.3.3a	155	TM2	After w/draw&dur boron dil CR ob&ICRR ch	SU7-S011	6.3.9.1	
14.2.12.3.3.3b	155	TM	Core react monit dur approach to critica	SU7-S011	6.3.19	
14.2.12.3.3.4	155	AC	To determine criticality	SU7-S011	9.3	
14.2.12.3.4	156	TI	Initial Criticality (S-070004)	SU7-S011	6.3	
14.2.12.3.4.1	156	OB	Achieve initial criticality	SU7-S011	1.1	
14.2.12.3.4.2a	156	PR	Initial core load completed	SU7-S011	5.1	
14.2.12.3.4.2b	156	PR	Req STS completed & necessary systems op	ADM 02-300	-----	
14.2.12.3.4.2c	156	PR	Post-core load precritical test complete	SU7-S011	5.2	
14.2.12.3.4.3a	156	TM	Dur rod w/draw&boron dil,data&ICR taken	SU7-S011	6.3	
14.2.12.3.4.3b	156	TM	Int crit by boron dil or w/draw of rods	SU7-S011	6.3	
14.2.12.3.4.4	156	AC	Flux lev est @ 1×10^{-8} amps on IR nuc ch	SU7-S011	9.3	
14.2.12.3.5	157	TI	Determination of CPR for Physics Test	SU7-S011	-----	
14.2.12.3.5.1	157	OB1	Determine reactor power level	SU7-S011	6.4	
14.2.12.3.5.1	157	OB2	Establish range of neutron flux	SU7-S011	6.4	
14.2.12.3.5.2a	157	PR	Reactor critical & stable in IR	SU7-S011	6.4.2,4	
14.2.12.3.5.2b	157	PR	Control rods sufficiently deep in core	SU7-S011	6.4.6	
14.2.12.3.5.2c	157	PR	Reactor coolant temperature established	SU7-S011	6.4.4,3	
14.2.12.3.5.3a	157	TM1	Withdraw control rod bank	SU7-S011	6.4.16	
14.2.12.3.5.3a	157	TM2	Allow neutron flux level to increase	SU7-S011	6.4.17	
14.2.12.3.5.3b	157	TM	Record RCPFL & IR channel currents	SU7-S011	6.4.18	
14.2.12.3.5.4	157	AC	Power level for zero power test determin	SU7-S011	6.4.20	
14.2.12.3.6	158	TI	Boron Endpoint Determination (S-07006)	SU7-S011	6.6	
14.2.12.3.6.1	158	OB	Determine crit react cool sys boron conc	SU7-S011	5.17	
14.2.12.3.6.2a	158	PR	Reactor crit w/in range for zero test	SU7-S011	6.6.2	
14.2.12.3.6.2b	158	PR	Reactor coolant @ normal op press & temp	SU7-S011	6.6.3,4	

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Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
14.2.12.3.6.2c	158	PR	Rods @ approx end point configuration	SU7-S011	6.6.1	
14.2.12.3.6.3	158	TM	Boron endpoints measured	SU7-S011	6.6.18	
14.2.12.3.6.4	158	AC	Result of bor endp calc meet req of NDR	SU7-S011	9.2.2	
14.2.12.3.7	159	TI	Isothermal Temp Coefficient Measurement	SU7-S011	-----	
14.2.12.3.7.1	159	OB1	Determine isothermal temp coefficient	SU7-S011	6.6	
14.2.12.3.7.1	159	OB2	Derive mod temp coeff from isotherm data	SU7-S011	1.2	
14.2.12.3.7.2a	159	PR	React crit w/in ra for zero power test	SU7-S011	6.6.21	
14.2.12.3.7.2b	159	PR	RCS norm op press & temp.	SU7-S011	6.6.3, 4	
14.2.12.3.7.2c	159	PR	Cont rods @ approx end point config	SU7-S011	6.6.14.1	
14.2.12.3.7.3	159	TM1	IT temp coeff det by heat/cool RCS	SU7-S011	6.6.27	3
14.2.12.3.7.3	159	TM2	Mod temp coeff derived from isoth data	SU7-S011	6.6.31	
14.2.12.3.7.4	159	AC	Average of isoth & mod temp coeff	SU7-S011	7.10	
14.2.12.3.8	160	TI	Power coefficient determination	SU7-0008.X	X = 1 to 4	
14.2.12.3.8.1	160	OB	Verify power coefficient of reactivity	SU7-0008.X	1.1	
14.2.12.3.8.2a	160	PR1	RCS press - nominal 2235 psig	GEN 00-004		
14.2.12.3.8.2a	160	PR2	RCCA,RCC bnk config - rods out, D @ bite	SU7-S013	6.3.13	
14.2.12.3.8.2a	160	PR3	RPL-30,50,75 & 90% RTP	SU7-0008.X	5.2	
14.2.12.3.8.2a	160	PR4	Tavg-const w/nom val corres to Tavy prog	SU7-0008.X	5.6	
14.2.12.3.8.2b	160	PR1	All subsys affectng PTR in auto mode op	GEN 00-004		
14.2.12.3.8.2b	160	PR2	CVCS demineralizer bypassed	SU7-0008.X	5.3	
14.2.12.3.8.3a	160	TM1	Gen elec load changed	SU7-0008.X	6.6	
14.2.12.3.8.3a	160	TM2	Pri free responds w/out cont rod motion	SU7-0008.X	6.6.4	
14.2.12.3.8.3b	160	TM1	PCVF calc by meas change in RCS temp/pwr	SU7-0008.X	6.7.9	
14.2.12.3.8.4	160	AC	Val VF agree w/dp of isoth temp coeff	SU7-0008.X	9.2.1	
14.2.12.3.9	161	TI	Load Swing Tests (S-07009)	SU7-S009.X	X = 1 to 2	

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14.2.12.3.9.1	161	OB	Verify nuc pl transient response	SU7-S009.X	1.1	
14.2.12.3.9.2	161	PR	SLC init from ssc @ 30-, 75- & 100% power	SU7-S009.X	5.2	
14.2.12.3.9.3a	161	TM	Manual reduce turbine generator output	SU7-S009.X	6.7	
14.2.12.3.9.3b	161	TM	PI variables record w/val on pl instru	SU7-S009.X	6.9	
14.2.12.3.9.4a	161	AC	Reactor and turbine must not trip.	SU7-S009.X	9.3.1	
14.2.12.3.9.4b	161	AC	Safety injection is not initiated.	SU7-0009.1	9.3.2	3
14.2.12.3.9.4c	161	AC	SG relief and safety valves do not lift.	SU7-0009.1	9.3.3	3
14.2.12.3.9.4d	161	AC	PZR relief and safety valves do not lift	SU7-0009.1	9.3.4	3
14.2.12.3.9.4e	161	AC	No manual control req. for steady state.	SU7-0009.1	9.3	3
14.2.12.3.9.4f	161	AC	Nuclear power overshoot less than 3%	SU7-0009.1	9.3.6	3
14.2.12.3.10	162	TI	Large Load Reduction Test	SU7-0010.X	X = 1, 2	
14.2.12.3.10.1	162	OB	Show response to load changes.	SU7-0010.X	1.1	
14.2.12.3.10.1	162	OB2	Monitor control systems	SU7-0010.X	1.2	
14.2.12.3.10.1	162	OB3	Optimize control sys setpoints.	SU7-0010.X	1.2	
14.2.12.3.10.2	162	PR	Load red. of 50% init. at 75 & 100% pwr.	SU7-0010.X	6.0	
14.2.12.3.10.3a	162	TM	Reduce manually TG for 50% load reduc.	SU7-0010.X	6.7	
14.2.12.3.10.3b	162	TM	Monitor & record plant variables.	SU7-0011		
14.2.12.3.10.3c	162	TM	Adjust setpoints for optimal response.	SU7-0010.X	4.3	
14.2.12.3.10.4a	162	AC	Reactor and turbine must not trip	SU7-0010.X	9.2.1	
14.2.12.3.10.4b	162	AC	Safety injection is not initiated.	SU7-0010.X	9.2.2	
14.2.12.3.10.4c	162	AC	Steam gen. safety valves do not lift.	SU7-0010.X	9.2.4	
14.2.12.3.10.4d	162	AC	PZR safety valves do not lift	SU7-0010.X	9.2.3	
14.2.12.3.10.4e	162	AC	No manual control required	SU7-0010.X	9.2	
14.2.12.3.11	163	TI	Plant Trip from 100% Pwr.	SU7-0011	-----	
14.2.12.3.11.1	163	OB1	Show auto con sys able to trip at 100%	SU7-S011	1.1	

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14.2.12.3.11.1	163	OB2	Determine response time of temp. det.	SU7-S011	1.2	
14.2.12.3.11.1	163	OB3	Evaluate data from trip	SU7-0011	1.3	
14.2.12.3.11.2a	163	PR	RCS, SGL, PZR P&L, &SDS are in auto mode	SU7-0011	5.6	
14.2.12.3.11.2b	163	PR	Plant operating at full power.	SU7-0011	5.5	
14.2.12.3.11.2c	163	PR	Diesel generators standby idling cond.	SU7-0011	5.9	
14.2.12.3.11.3a	163	TM	Initiate plant trip	SU7-0011	6.8	
14.2.12.3.11.3b	163	TM	Adj. setpoints for optimal response	SU7-0011	-----	24
14.2.12.3.11.4	163	AC	System within spec. limitations	SU7-0011	9.0	
14.2.12.3.12	164	TI	Rods Drop and Plant Trip	SU7-0012	-----	
14.2.12.3.12.1	164	OB1	Show neg. RT circuit can trip reactor	SU7-0012	1.1	
14.2.12.3.12.2a	164	PR1	RCS, SGL, PZR P&L, &FW pump in auto mode	SU7-0012	5.1	
14.2.12.3.12.2a	164	PR2	Steam dump system in T av mode.	SU7-0012	5.1.4	
14.2.12.3.12.2b	164	PR	Plant operating at 30 to 50% Pwr.	SU7-0012	5.2	
14.2.12.3.12.2c	164	PR	Rod group & rods to be dropped are ID'd	SU7-0012	5.5	
14.2.12.3.12.3	164	TM	Drop two Rods from common group by NIS	SU7-0012	6.10	
14.2.12.3.12.3b	164	TM	Monitor sys. prior to trip from 100%	SU7-0012	6.9	
14.2.12.3.12.4a	164	AC	Reactor trip due to neg. rate trip.	SU7-0012	9.1.1	
14.2.12.3.12.4b	164	AC	RCCA's release & bottom after trip signal	SU7-0012	9.1.2	
14.2.12.3.12.4c	164	AC	PZR safety valves do not lift	SU7-0012	9.1.3	
14.2.12.3.12.4d	164	AC	Steam Gen. safety valves do not lift	SU7-0012	9.1.4	
14.2.12.3.12.4e	164	AC	Safety injection is not initiated.	SU7-0012	9.1.5	
14.2.12.3.13	165	TI	Automatic Steam Gen. Level Control	SU7-AB01.X	X = 1 to 6	
14.2.12.3.13.1a	165	OB1	Verify stability of automatic SGLC.	SU7-AB01.2	1.2	
14.2.12.3.13.1a	165	OB2	Verify proper operation of FW pumps.	SU7-AB01.3	1.2	
14.2.12.3.13.1b	165	OB	Show performance of SG Feedwater pumps	SU7-AB01.3	1.2	

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14.2.12.3.13.2a	165	PR	SGLC system checked and calibrated.	SU7-AB01.1	5.1	
14.2.12.3.13.2b	165	PR	SGL instr. & setpoints set & calibrated.	SU7-AB01.1	5.3	
14.2.12.3.13.3a	165	TM	Induce SGL trans. to prove SGLC response	SU7-AB01.1	6.1	3
14.2.12.3.13.3b	165	TM1	verify variable speed features of SG FWP	SU7-AB01.5	6.4.2	
14.2.12.3.13.3b	165	TM2	verify performance char. of SG FW pumps	SU7-AB01.4	6.5	
14.2.12.3.13.4a	165	AC	Auto SGL CS resp. same as Tech manual.	SU7-AB01.X	9.0	
14.2.12.3.13.4b	165	AC	SG FWP perf. char. agree w/design specs.	SU7-AB01.4	9.2.1	
14.2.12.3.14	166	TI	Dynamic Automatic Steam Dump Control	SU7-AB02	-----	
14.2.12.3.14.1	166	OB1	Prove operation of T av steam dump contrl.	SU7-AB02	1.1	
14.2.12.3.14.1	166	OB2	Show controller setpoint adequacy	SU7-AB02	1.2	
14.2.12.3.14.1	166	OB3	Get final settings for steam pwr control	SU7-AB02	1.3	
14.2.12.3.14.2a	166	PR	RCS at normal psr & temperature.	SU7-AB02	5.2	
14.2.12.3.14.2b	166	PR	Reactor is critical.	SU7-AB02	5.2	
14.2.12.3.14.2c	166	PR	Steam dump system checked & calibrated	SU7-AB02	5.4	
14.2.12.3.14.2d	166	PR	Main FW and condensor are operational.	SU7-AB02	5.9, 5.12	
14.2.12.3.14.3a	166	TM	Reactor power increased.	SU7-AB02	6.4.6	
14.2.12.3.14.3b	166	TM	Psr. controller setpoint increased.	SU7-AB02	6.4	
14.2.12.3.14.3c	166	TM1	Simulate turbine trip.	SU7-AB02	6.5	
14.2.12.3.14.3c	166	TM2	Open steam dump valves	SU7-AB02	6.5	
14.2.12.3.14.4	166	AC	Steam dump sys sustain stble reac. T av	SU7-AB02	9.2	
14.2.12.3.15	167	TI	RTD Bypass Flow Measurement	SU7-BB01		
14.2.12.3.15	167	OB1	Measure flow rate for design trans. time	SU7-BB01	1.1	
14.2.12.3.15.1	167	OB2	Measure Flow Rt. in each RTD bypass loop	SU7-BB01	1.1	
14.2.12.3.15.2a	167	PR	Component testing & calibration complete	SU7-BB01	5.1	
14.2.12.3.15.2b	167	PR	Power supplies circuits operational	SU7-BB01	5.2, 5.3	

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14.2.12.3.15.2c	167	PR1	Reactor core is installed.	SU7-BB01	5.5	
14.2.12.3.15.2c	167	PR2	Plant at normal temperature & PZR	SU7-BB01	5.5	
14.2.12.3.15.3	167	TM1	Flow rate calculated	SU7-BB01	6.1.2	
14.2.12.3.15.3	167	TM2	Hot & cold RTD flow data recorded.	SU7-BB01	6.2	
14.2.12.3.15.4	167	AC	Flow rate within design specifications	SU7-BB01	9.2	
14.2.12.3.16	168	TI	PZR Heater and Spray Capability Test	SU7-BB02	-----	
14.2.12.3.16.1	168	OB1	Determine rate of pwr reduction	SU7-BB02	1.1a	
14.2.12.3.16.1	168	OB2	Determine rate of pressure increase	SU7-BB02	1.1b	
14.2.12.3.16.2a	168	PR	Component testing & calibration complete	SU7-BB02	5.1	
14.2.12.3.16.2b	168	PR	Electrical power & circuits operational	SU7-BB02	5.3	
14.2.12.3.16.2c	168	PR	Core installed, plant in hot shutdown.	SU7-BB02	5.6	
14.2.12.3.16.2d	168	PR	Setting of continuous spray complete	SU7-BB02	5.5	
14.2.12.3.16.2e	168	PR	Reactor Core System Borated.	SU7-BB02	5.9	
14.2.12.3.16.2f	168	PR	Test performed prior to init crit.	SU7-S010	5.6/6.3.1	
14.2.12.3.16.3a	168	TM1	Spray valves closed.	SU7-BB02	6.1	
14.2.12.3.16.3a	168	TM2	Time to reach 2,300 psig is meas./rec.	SU7-BB02	6.1	
14.2.12.3.16.3b	168	TM1	Pressurizer heaters deenergized.	SU7-BB02	6.1	
14.2.12.3.16.3b	168	TM2	Time to reach 2,000 psig is meas. & rec.	SU7-BB02	6.1	
14.2.12.3.16.4	168	AC1	PZR spray response equals design limits.	SU7-BB02	9.2.1	
14.2.12.3.16.4	168	AC2	PZR htr response =to design limits.	SU7-BB02	9.2.2	
14.2.12.3.17	169	TI	Reactor Coolant System Flow Measurement	SU7-BB03	-----	
14.2.12.3.17.1a	169	OB	Confirm RCS flow rate + or =to 90%/DFR	SU7-BB03	1.1	
14.2.12.3.17.1b	169	OB	Confirm RCS flow is +or=to ther.dsgn. FR	SU7-BB02	9.2.1	
14.2.12.3.17.2a	169	PR	Component testing calibration complete.	SU7-BB03	5.1	12
14.2.12.3.17.2b	169	PR	Electrical power circuits operational	SU7-BB03	5.3	

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14.2.12.3.17.2c	169	PR1	Reactor core is installed.	SU7-BB03	5.6	
14.2.12.3.17.2c	169	PR2	Plant at normal temp. & pressure.	SU7-BB03	5.6	
14.2.12.3.17.3a	169	TM	Before critical operation, RCS FR calc.	SU7-BB03	6.1	
14.2.12.3.17.3b	169	TM	During init. pwr. oper. RCS FR calc.	SU7-SC03	6.0	
14.2.12.3.17.4	169	AC	RCS flow rate + or =to 90% of des. value	SU7-BB03	9.2.1	
14.2.12.3.18	170	TI	RCS Flow Coastdown Test	SU7-BB04	-----	
14.2.12.3.18.1a	170	OB	Measure rate RCS changes after pump trip	SU7-BB04	1.1	
14.2.12.3.18.1b	170	OB	Deter. low-flow delay - or =to saf. anal	SU7-BB04	9.1.2	
14.2.12.3.18.2a	170	PR	Component testing & calibration complete	SU7-BB04	5.1	12
14.2.12.3.18.2b	170	PR	Power supplies & circuits operational	SU7-BB04	5.3	
14.2.12.3.18.2c	170	PR1	Reactor core is installed	SU7-BB04	5.7	
14.2.12.3.18.2c	170	PR2	Plant at normal temperature & pressure.	SU7-BB04	5.7	
14.2.12.3.18.3	170	TM	Coastdown & delay time data recorded.	SU7-BB04	6.2	
14.2.12.3.18.4a	170	AC	Change rate RC flow within design specs.	SU7-BB04	9.1.1	
14.2.12.3.18.4b	170	AC	RCS low-flow times - or =to safety anal.	SU7-BB04	9.1.2	
14.2.12.3.19	171	TI	PZR continuous Spray Flow Verification.	SU7-BB05	-----	
14.2.12.3.19.1	171	OB	Establish setting for pzs spray flow	SU7-BB05	1.0a	
14.2.12.3.19.2a	171	PR	Component testing calibration complete.	SU7-BB05	5.1	12
14.2.12.3.19.2b	171	PR	Power supplies and circuits operational	SU7-BB05	5.3	
14.2.12.3.19.2c	171	PR1	Reactor core is installed.	SU7-BB05	5.4	
14.2.12.3.19.2c	171	PR2	Plant at normal temperature	SU7-BB05	5.4	
14.2.12.3.19.2d	171	PR	Reactor coolant system is borated.	SU7-BB05	5.7	
14.2.12.3.19.2e	171	PR	Test performed prior to init. crit.	SU7-S016	5.4, 6.3.1	
14.2.12.3.19.2f	171	PR	Prelim setting of SF complete during HFT	SU3-BB05		25
14.2.12.3.19.3	171	TM1	Spray flow valves adj. to optimum flow.	SU7-BB05	6.1	

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14.2.12.3.19.3	171	TI12	Valve throttle positions are recorded.	SU7-BB05	6.1	
14.2.12.3.19.4	171	AC	SF valves throttled to keep line warm	SU7-BB05	9.3	
14.2.12.3.20	172	TI	RTD/TC Cross Calibration	SU7-BB06.X	X = 1, 2	
14.2.12.3.20.1a	172	OB1	Provide checkout of RTD's & incore ther.	SU7-BB06.1	6.0	
14.2.12.3.20.1a	172	OB2	Generate isotherrrmal cross-calib. data.	SU7-BB06.1	6.6.4	
14.2.12.3.20.1b	172	OB	Provide a func. checkout of the TCCM	SU7-BB06.2	1.1	
14.2.12.3.20.2a	172	PR	Component testing & calibration complete	SU7-BB06.1	5.2	12
14.2.12.3.20.2b	172	PR	Power supplies & circuits operational.	SU7-S010		8
14.2.12.3.20.2c	172	PR	Plant heatup is in progress.	SU7-S010	6.2.2	
14.2.12.3.20.3a	172	TM1	At various temp plateau data is recorded	SU7-BB06.1		
14.2.12.3.20.3a	172	TM2	Cross-calibration determined.	SU7-BB06.1	7.8	
14.2.12.3.20.3b	172	TM1	TC core subcooling monitor operational.	SU7-BB06.2	6.1	
14.2.12.3.20.3b	172	TM2	Programmable functions are verified.	SU7-BB06.2	6.1 - 6.6	
14.2.12.3.20.4a	172	AC	Indv. RTD readings within design specs.	SU7-BB06.1	9.2.1	
14.2.12.3.20.4b	172	AC	Corrections of RTD's within design specs	SU7-BB06.1	9.2.1	
14.2.12.3.20.4c	172	AC	TCCM in accordance with design specs.	SU7-BB06.2	9.2.1, 2	
14.2.12.3.21	173	TI	CL Instrumentation & NS Requirements	SU7-SC01	-----	
14.2.12.3.21.1	173	OB1	Verify instr. prior to fuel-loading.	SU7-SC01	1.1	
14.2.12.3.21.1	173	OB2	Check neutron resp. of NIS source range.	SU7-SC01	1.2	
14.2.12.3.21.1	173	OB3	Check neutron response after 8hr delay.	SU7-SC01	1.3	
14.2.12.3.21.1	173	OB4	Verify S/N ratio > 2.	SU7-SC01	1.4	
14.2.12.3.21.2a	173	PR	Hot functional testing is completed.	SU7-SC01		26
14.2.12.3.21.2b	173	PR1	Nuclear instr. sys. is installed.	SU7-SC01	5.4	
14.2.12.3.21.2b	173	PR2	Nuclear instr. sys. is calibrated.	SU7-SC01	5.4	
14.2.12.3.21.3a	173	TM	Verify align. of temp. Instr. w-port. NS	SU7-SC01	6.1, 6.2	

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14.2.12.3.21.3b	173	TM	Port. NS to check NR of NIS source range	SU7-SC01	6.2	
14.2.12.3.21.3c	173	TM1	Verify temp. SR after 8 hr delay.	SU7-SC01	6.3	
14.2.12.3.21.3c	173	TM2	Verify temp. NIS source range after 8hrs	SU7-SC01	6.3	
14.2.12.3.21.3d	173	TM	Perform statistical evaluation.	SU7-SC01	6.3.3.1	
14.2.12.3.21.4	173	AC2	S/N Ratio > 2	SU7-SC01	9.5	
14.2.12.3.21.4	173	AC1	Neutron instrumentation operational.	SU7-SC01	9.4	
14.2.12.3.22	174	TI	Thermal Pwr. Meas. & SP Data Collection	SU7SC03.XX	XX = 1 to 8	
14.2.12.3.22.1	174	OB1	Measure core thermal power.	SU7-SC03.X	6.0	
14.2.12.3.22.1	174	OB2	Obtain data for instr. & calibration.	SU7-SC03.X	6.0	
14.2.12.3.22.2a	174	PR	Deleted	SU7-SC03.X	-----	
14.2.12.3.22.2b	174	PR	Calorimetric instr. is installed.	SU7-SC03.1	6.0	
14.2.12.3.22.2c	174	PR	Test is performed at 30,50,75,90 & 100%.	SU7-SC03.2	5.1	3
14.2.12.3.22.3	174	TM1	Collect data & calculate thermal pwr.	SU7-SC03.X	6.4	3
14.2.12.3.22.3	174	TM2	Obtain statepoint data.	SU7-SC03.X	6.3	3
14.2.12.3.22.3	174	TM3	Compute average for each parameter.	SU7-SC03.X	6.4	3
14.2.12.3.22.3	174	TM4	Convert to appropriate units.	SU7-SC03.X	6.4	3
14.2.12.3.22.3	174	TM5	Summarize data for each RCS loop.	SU7-SC03.X	X = 1 to 8	3
14.2.12.3.22.3	174	AC	This test is for the collection of data.	SU7-SC03.X	9.2.1	3
14.2.12.3.23	175	TI	Operational Alignment of NI.	SU7SE02.XX	XX=1 to 10	
14.2.12.3.23.1	175	OB1	Establish settings on SR instr.	SU7-SE02.1	1.1	3
14.2.12.3.23.1	175	OB2	Establish settings on ISR instr.	SU7-SE02.2	1.1	3
14.2.12.3.23.1	175	OB3	Establish settings on PR instr.	SU7-SE02.2	1.1	3
14.2.12.3.23.2a	175	PR	Nuclear instrumentation sys. aligned.	SU7-SE02.1	5.2	3
14.2.12.3.23.2b	175	PR3	Test will be conducted at 100% pwr.	SU7-S0XX	X=11 to 16	
14.2.12.3.23.2b	175	PR1	Test will be conducted prior to crit.	SU7-S010	6.3.11	

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14.2.12.3.23.2b	175	PR2	Test will be conducted during pwr. asc.	SU7-S015	6.0	
14.2.12.3.23.3	175	TM	Functions calibrated, tested, & verified.	SU7-SE02.2	6.0	3
14.2.12.3.23.3b	175	TM	Operational modes set per test instruc.	SU7-SE02.4	6.0	3
14.2.12.3.23.4	175	AC1	Overlap must be at least 1 1/2 decades.	SU7-SE02.4	9.2.1	3
14.2.12.3.23.4	175	AC2	Pwr. range channels agree with PCC.	SU7-SE02.4	9.2.2	3
14.2.12.3.24	176	TI	Axial Flux Difference Instr. Calibration	SU7-SE03.X	X = 1 to 3	
14.2.12.3.24.1	176	OB	Derive calibration factors.	SU7-SE03.X	6.0	X=1-2
14.2.12.3.24.2a	176	PR	Axial flux differ. inst has been aligned	SU7-SE03.2	5.1	
14.2.12.3.24.2b	176	PR	Data obtained at 30% & 50% power.	SU7-SE03.1	5.5	
14.2.12.3.24.3	176	TM1	Collect data at 75% power.	SU7-SE03.2	6.1	
14.2.12.3.24.3	176	TM2	Perform delta I calculations.	SU7-SE03.2	6.3	
14.2.12.3.24.3	176	TM3	Extrapolate results for use at 100% pwr.	SU7-SE03.2	6.1.2	
14.2.12.3.24.4	176	AC	Calibration factor agree with tech specs	SU7-SE03.2	9.6	
14.2.12.3.25	177	TI	CRD Mechanism Operational Test	SU7-SF01.4	-----	
14.2.12.3.25.1	177	OB1	Show operation of the Rod Drive Mech.	SU7-SF01.4	1.2	
14.2.12.3.25.1	177	OB2	Provide proof of slave cycler timing.	SU7-SF01.4	1.1	
14.2.12.3.25.2a	177	PR	CRDM's are installed.	SU7-SF01.4	5.1	
14.2.12.3.25.2b	177	PR1	Rod drive motor-gen. sets are installed.	SU7-SF01.4	5.9	
14.2.12.3.25.2b	177	PR2	Power is available	SU7-SF01.4	5.9	
14.2.12.3.25.2c	177	PR1	Core is installed.	SU7-SF01.4	5.1	
14.2.12.3.25.2c	177	PR2	DRPI is installed.	SU7-SF01.4	5.1	
14.2.12.3.25.2c	177	PR3	CRDM cooling fans are operational.	SU7-SF01.4	5.7	
14.2.12.3.25.2d	177	PR	NI channels are available.	SU7-SF01.4	4.2	
14.2.12.3.25.2e	177	PR	Fast speed oscillograph is available.	SU7-SF01.4	6.1.3	
14.2.12.3.25.3a	177	TM1	Confirm signals to CRDM step. mag. coils	SU7-SF01.4	6.1.8	

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14.2.12.3.25.3b	177	TM1	Verify operation of CRDM's .	SU7-SF01.4	6.1	
14.2.12.3.25.3b	177	TM2	CRDM Magnet coil currents are recorded.	SU7-SF01.4	6.1.3	
14.2.12.3.25.3b	177	TM3	Audio noise signals are recorded.	SU7-SF01.4	6.1.3	
14.2.12.3.25.4	177	AC	Control rods conform to requirements.	SU7-SF01.4	9.2.1	
14.2.12.3.26	178	TI	Rod Control System	SU7-SF02	-----	
14.2.12.3.26.1	178	OB	Demonstrate RCS prior to init. crit.	SU7-SF02	1.1	
14.2.12.3.26.1	178	OB3	Show operation of rod inhibit functions.	SU7-SF02	6.0	
14.2.12.3.26.2a	178	PR1	RCS at normal operating pressure.	SU7-SF02	5.1	
14.2.12.3.26.2a	178	PR2	RCS at normal operating temperature.	SU7-SF02	5.1	
14.2.12.3.26.2b	178	PR	Rod control sys installed & aligned.	SU7-SF02	5.2	
14.2.12.3.26.2c	178	PR	Source range nuc. instruments operable.	SU7-SF02	5.3	
14.2.12.3.26.2d	178	PR	Rods are capable of withdrawal.	SU7-SF02	6.0	
14.2.12.3.26.2e	178	PR	DRPI system is operable.	SU7-SF02	5.12	
14.2.12.3.26.3a	178	TM2	Control is checked prior to init. crit.	SU7-SF02	6.0	
14.2.12.3.26.3b	178	TM1	Status lights are verified.	SU7-SF02	6.7.1	
14.2.12.3.26.3b	178	TM2	Alarms are verified.	SU7-SF02	6.0	
14.2.12.3.26.3b	178	TM3	Indicators are verified.	SU7-SF02	6.8.3	
14.2.12.3.26.4	178	AC1	Control functions agree w-RPIS & RCS man	SU7-SF02	6.0	
14.2.12.3.26.4	178	AC2	Indication function agree w-RPIS & RCS	SU7-SF02	6.0	
14.2.12.3.26.4	178	AC3	Restrict rod motion w/inhibit function.	SU7-SF02	6.0	
14.2.12.3.27	179	TI	Rod Drop Time Measurement	SU7-SF03.X	X=1 to 4	
14.2.12.3.27.1	179	OB2	Determine rod drop time under FF cold.	SU7-SF03.2	1.1	
14.2.12.3.27.1	179	OB1	Determine rod drop time under NF cold.	SU7-SF03.1	1.1	
14.2.12.3.27.1	179	OB3	Determine rod drop time under NF hot.	SU7-SF03.4	1.1	
14.2.12.3.27.1	179	OB4	Determine rod drop time under FF hot.	SU7-SF03.3	1.1	

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14.2.12.3.27.2a	179	PR	Initial core loading is completed.	SU7-SF03.1	5.2	
14.2.12.3.27.2b	179	PR	Rod control sys. is installed and tested	SU7-SF03.1	5.3	
14.2.12.3.27.2c	179	PR	RPI is installed and checked.	SU7-SF03.1	5.3	
14.2.12.3.27.3	179	TM1	Withdraw each rod cluster control assy.	SU7-SF03.1	6.5.1	
14.2.12.3.27.3	179	TM2	Interrupt electrical power.	SU7-SF03.1	6.5.4.1	
14.2.12.3.27.3	179	TM3	Measure & record the rod drop time.	SU7-SF03.1	6.5.4.5	
14.2.12.3.27.3	179	TM4	Reactor at C & H conditions, & NF & FF.	SU7-SF03.X	6.0	
14.2.12.3.27.4	179	AC	Rod drop times agree with tech. specs.	SU7-SF03.3	9.1.1	
14.2.12.3.28	180	TI	Rod Position Indication System	SU7-SF04.X	X = 1 & 2	
14.2.12.3.28.1	180	OB1	RPI sys performs indication functions.	SU7-SF04.X	1.1	
14.2.12.3.28.1	180	OB3	Each rod operates over its entire range.	SU7-SF04.X	1.2	
14.2.12.3.28.2a	180	PR1a	Test at T < 200 F.	SU7-SF04.1	5.1	
14.2.12.3.28.2a	180	PR2a	Verify at T nom. 557 F.	SU7-SF04.2	5.1	
14.2.12.3.28.2b	180	PR	At least one reac. cool. pump in service	SU7-SF04.2	5.1	27
14.2.12.3.28.3a	180	TM1	All shutdown rod banks fully withdrawn.	SU7-SF04.X	6.6.1	
14.2.12.3.28.3a	180	TM2	Record rod position.	SU7-SF04.X	6.6.2	
14.2.12.3.28.3b	180	TM1	Control rod banks fully withdrawn.	SU7-SF04.X	6.7.1	
14.2.12.3.28.3b	180	TM2	Record rod position.	SU7-SF04.X	6.7.2	
14.2.12.3.28.3c	180	TM	PA converter readout recorded.	SU7-SF04.X	6.7.2.4	
14.2.12.3.28.4	180	AC1	RPI sys performs required alarm function	SU7-SF04.X	9.2	
14.2.12.3.28.4	180	AC2	Each rod operates over travel range.	SU7-SF04.X	9.2.4	
14.2.12.3.29	181	TI	Automatic Reactor Control System	SU7-SF05	-----	
14.2.12.3.29.1	181	OB1	Show RC able to respond to input signals	SU7-SF05	6.0	
14.2.12.3.29.1	181	OB2	Show RC able to transmit signals.	SU7-SF05	6.0	
14.2.12.3.29.2a	181	PR	Reactor is at 30% power.	SU7-SF05	5.2	

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14.2.12.3.29.2b	181	PR1	PZR level & pressure systems in auto.	SU7-SF05	5.3	
14.2.12.3.29.2b	181	PR2	Steam dump system in automatic.	SU7-SF05	5.3.3	
14.2.12.3.29.2b	181	PR3	Steam generator level system in auto.	SU7-SF05	5.3.4	
14.2.12.3.29.2b	181	PR4	Main feed pump speed control sys in auto	SU7-SF05	5.3.5	
14.2.12.3.29.3	181	TM1	T ave varied from Tret setpoint.	SU7-SF05	6.10	
14.2.12.3.29.3	181	TM2	Verify recovery capabilities of auto RCS	SU7-SF05	6.12	
14.2.12.3.29.4a	181	AC1	No manual control required.	SU7-SF05	9.2.1	
14.2.12.3.29.4b	181	AC1	Tav return to + 1.5F after 6F transient.	SU7-SF05	9.2.2	
14.2.12.3.29.4c	181	AC	Rod motion is inhibited.	SU7-SF05	6.0	
14.2.12.3.30	182	TI	Operational Align. of Proc. Temp. Instr.	SU7-SF06.X	X = 1 to 6	
14.2.12.3.30.1	182	OB1	Align T and T PI prior to criticality	SU7-SF06.1	1.1	
14.2.12.3.30.1	182	OB2	Align T and T Proc. Instr. at power.	SU7-SF06.2	1.1	3
14.2.12.3.30.2a	182	PR2	Alignment prior to init crit at 75% pwr.	SU7-SF06.4	6.0	
14.2.12.3.30.2a	182	PR1	Alignment prior to init. crit. & at 75%.	SU7-SF06.1	5.2	3
14.2.12.3.30.2a	182	PR3	Alignment will be checked at 100% pwr.	SU7-SF06.6	6.0	
14.2.12.3.30.2b	182	PR	All reactor coolant pumps operating.	SU7-SF06.1	5.2	
14.2.12.3.30.3a	182	TM1	Align T and T prior to crit & at 75%.	SU7-SF06.1	6.1	3
14.2.12.3.30.3a	182	TM2	Collect 75% data for T and T values.	SU7-SF06.4	6.10	
14.2.12.3.30.3a	182	TM3	Use collected data (TM2) for 100% pwr.	SU7-SF06.6	6.14, 16	
14.2.12.3.30.3b	182	TM1	Align of T and T agree with TPM.	SU7-SF06.6	6.0	
14.2.12.3.30.3b	182	TM2	Realign channels as nec. per test specs.	SU7-SF06.6	6.10, 12	
14.2.12.3.30.4	182	AC	T and T channels must agree w/design.	SU7-SF06.6	6.4	
14.2.12.3.31	183	TI	Startup Adjustments of RCS	SU7-SF07.X	X = 1 to 5	
14.2.12.3.31.1	183	OB	Obtain optimum plant efficiency.	SU7-SF07.X	1.1	
14.2.12.3.31.2a	183	PR	RCS at normal psr. & temp.	SU7-SF07.1	5.1	

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14.2.12.3.31.2b	183	PR	Align. per Oper Align of Proc Temp Instr	SU7-SF07.1	5.3	3
14.2.12.3.31.2c	183	PR	Turbine control system is aligned.	SU7-SF07.1	5.4	3
14.2.12.3.31.3a	183	TMM	Obtain sys temp & steam psr. data.	SU7-SF07.1	6.1	3
14.2.12.3.31.3b	183	TM	Data will provide basis for adj to RCS.	SU7-SF07.3	6.6	3
14.2.12.3.31.4	183	AC	T controller maintain spec. steam psr.	SU7-SF07.4	6.0	
14.2.12.3.32	184	TI	RCCA or Bank Worth Meas. at Zero Power	SU7-S011	6.1	
14.2.12.3.32.1	184	OB	Determine worth of a RCC or RCCA.	SU7-S011	6.6	
14.2.12.3.32.2a	184	PR	Reactor is critical.	SU7-S011	6.6.38	
14.2.12.3.32.2b	184	PR	RCS at normal operating psr. & temp.	SU7-S011	6.6.39,40	
14.2.12.3.32.3	184	TM1	RCC & RCCA validated by +or- of B in RCS.	SU7-S011	6.6	
14.2.12.3.32.3	184	TM2	Cause rod movement .	SU7-S011	6.6	
14.2.12.3.32.3	184	TM3	Rod movement causes reactivity change.	SU7-S011	6.6	
14.2.12.3.32.3	184	TM4	Changes are used to compute worths.	SU7-S011	6.6	
14.2.12.3.32.4	184	AC	Worth of RCC or RCCA agrees w NDR & VDD.	SU7-S011	9.1.2	9.2.4
14.2.12.3.33	185	TI	RCCA or Bank Worth Meas. at Power	SU7-SF09.X	X = 1 to 2	
14.2.12.3.33.1	185	OB1	To measure RCCA for an ejected rod.	SU7-SF09.1	6.0	
14.2.12.3.33.1	185	OB2	Incore resp to dropped rod.	SU7-SF09.2	6.0	
14.2.12.3.33.2	185	PR1	Testing performed at 30% power.	SU7-SF09.1	5.1	
14.2.12.3.33.2	185	PR2	Testing performed at 50% power.	SU7-SF09.2	5.1	
14.2.12.3.33.3a	185	TM1	Ejected Rod.	SU7-SF09.1	6.0	
14.2.12.3.33.3b	185	TM2	Dropped rod.	SU7-SF09.2	6.0	
14.2.12.3.33.4a	185	AC	Ejected Rod Worth agrees w/ NDS	SU7-SF09.1	9.0	
14.2.12.3.33.4b	185	AC	Dropped Rod Worth agrees w/NDC.	SU7-SF09.2	9.0	
14.2.12.3.34	186	TI	Reactor Systems Sampling for Core Load	SU7-SJ01	-----	
14.2.12.3.34.1	186	OB	Verify boron in RCS & Auxiliary systems.	SU7-SJ01	1.1	

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14.2.12.3.34.2a	186	PR1	Boric acid tank filled w/boric acid.	SU7-SJ01	5.1	
14.2.12.3.34.2b	186	PR	RCS filled with RG wtr. per tech. specs.	SU7-SJ01	5.6	
14.2.12.3.34.3a	186	TM	Fill & circulate the RCS w borated wtr.	SU7-SJ01	5.6, 6.3	
14.2.12.3.34.3b	186	TM1	Collect & analyze 4 smpl. taken from RCS	SU7-SJ01	6.4	
14.2.12.3.34.3b	186	TM2	1 sample from oper. resid. heat rem. loop	SU7-SJ01	6.4	
14.2.12.3.34.4	186	AC	Boron of samples within 30-ppm range.	SU7-SJ01	9.4	
14.2.12.3.35	187	ATTN:	DELETED.			
14.2.12.3.36	188	TI	SD & Maint. of Hot Standby Ext. to C R	SU7-0014	-----	
14.2.12.3.36.1	188	OB1	Show plant can be taken from >10% to HS.	SU7-0014	1.1	
14.2.12.3.36.1	188	OB2	Verify plant can maintain HS for 30 MIN.	SU7-0014	1.1	
14.2.12.3.36.1	188	OB3	Use of controls & instr. ext. to C R	SU7-0014	1.1	
14.2.12.3.36.2a	188	PR	Component testing & calibration complete	SU7-0014		8, 12
14.2.12.3.36.2b	188	PR1	Electrical power supplies operational.	SU7-0014		8
14.2.12.3.36.2b	188	PR2	Control circuits are operational.	SU7-0014		8
14.2.12.3.36.2c	188	PR	Plant operating at >10 percent pwr.	SU7-0014	5.3	
14.2.12.3.36.2d	188	PR	Control room obs. auth. & resp. specified.	SU7-0014	5.5, 6	
14.2.12.3.36.3a	188	TM	Plant taken from >10% to hot standby.	SU7-0014	6.3	
14.2.12.3.36.3b	188	TM	Maintain hot standby for 30 minutes.	SU7-0014	6.10	
14.2.12.3.36.3c	188	TM	All actions by CRO doc. within proc.	SU7-0014	appx. C	
14.2.12.3.36.4	188	AC1	Plant can be taken from >10% to HS.	SU7-0014	9.1.1	
14.2.12.3.36.4	188	AC2	Condition maintained for 30 minutes.	SU7-0014	9.1.1	
14.2.12.3.36.4	188	AC3	Use of a plant procedure.	SU7-0014	9.1.1	
14.2.12.3.36.4	188	AC4	Minimum shift crew utilized.	SU7-0014	9.1.1	
14.2.12.3.36.4	188	AC5	Controls & instr. ext. to control room.	SU7-0014	9.1.1	
14.2.12.3.37	189	TI	Power Asc. Ther. Exp. & Dynamic Test.	SU7-0015	-----	

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14.2.12.3.37.1a	189	OB	Show that sys. points respond per design	SU7-0015	6.0	
14.2.12.3.37.1b	189	OB1	Show sys. piping exp. without obstr.	SU7-0015	6.0	
14.2.12.3.37.1b	189	OB2	Expansion in accordance with design.	SU7-0015	1.0a	
14.2.12.3.37.1b	189	OB3	Piping returns to cold pos. per design.	SU7-0015	6.5	
14.2.12.3.37.2a	189	PR	Reference points are established.	SU7-0015	6.1	
14.2.12.3.37.2b	189	PR	Pwr. asc. testing in progress.	SU7-0015	6.0	
14.2.12.3.37.2c	189	PR	Subject systems avail. for spec. oper.	SU7-S015	5.1	
14.2.12.3.37.2d	189	PR	Instrument calibration is complete.	SU7-0015	5.7	
14.2.12.3.37.2e	189	PR	Preservice insp. complete within 6 mos.	SU7-0015	5.8	
14.2.12.3.37.3a	189	TM	Record cold baseline data.	SU7-0015	6.1	
14.2.12.3.37.3b	189	TM	Obtain measurement data.	SU7-0015	6.2	
14.2.12.3.37.3c	189	TM	Systems are aligned for operation.	GEN SERIES		
14.2.12.3.37.3d	189	TM1	Pump operation & valve operation is init	GEN SERIES		
14.2.12.3.37.3d	189	TM2	System is monitored for response.	SU7-0015	6.4.6	
14.2.12.3.37.3e	189	TM	Obtain measurement data after cooldown.	SU7-0015	6.5	
14.2.12.3.37.4a	189	AC	No evidence of blocking exc. per design.	SU7-0015	9.2.1	
14.2.12.3.37.4c	189	AC2	Snubber swing clearance satisfactorily.	SU7-0015	9.2.2	
14.2.12.3.37.4b	190	AC	Total stresses do not exceed code limits	SU7-0015	9.2.4	
14.2.12.3.37.4c	190	AC1	Spring hanger movement within H & C StPt	SU7-0015	9.2.2	
14.2.12.3.37.4c	190	AC3	Snubbers do not fully retract or expand.	SU7-0015	9.2.2	
14.2.12.3.37.4d	190	AC	piping return to baseline pos per design	SU7-0015	9.2.3	
14.2.12.3.37.4e	190	AC	Movement within 25% of anal v1 or T-25"	SU7-0015	9.2.5	
14.2.12.3.38	191	TI	Incore Flux Mapping	SU7-SR02	-----	3
14.2.12.3.38.1	191	OB	Obtain core pwr. & temp. profiles.	SU7-SR02	6.0	
14.2.12.3.38.2a	191	PR	Incore monitoring system has been tested	SU7-SR0X		X=3,4

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14.2.12.3.38.2b	191	PR	Test performed at low pwr, 30,50,75,100%	SU7-SR02	6.0	
14.2.12.3.38.2c	191	PR	Reactor stabilized prior to taking a map	SU7-SR02	6.0	
14.2.12.3.38.3	191	TM1	Movable detectors inserted into core.	SU7-SR02	6.1	
14.2.12.3.38.3	191	TM2	Data is obtained.	SU7-SR02	6.1	
14.2.12.3.38.3	191	TM3	Thermocouples monitored at stable pwr.	SU7-SR02	6.1	
14.2.12.3.38.3	191	TM4	Data is retained for evaluation.	SU7-SR02	6.1	
14.2.12.3.38.4	191	AC	Flux & temperature data obtained.	SU7-SR02	9.3	3
14.2.12.3.39	192	TI	Incore Instrumentation Test	SU7-SR04	-----	3
14.2.12.3.39.1	192	OB	Set up & show operation of Inc Instr Sys	SU7-SR04	1.1	3
14.2.12.3.39.2a	192	PR	Incore instrumentation sys is installed	INSTALLED	12/84	1
14.2.12.3.39.2b	192	PR	Rotation & limit switch oper. verified.	SU7-SR03	5.6	
14.2.12.3.39.2c	192	PR1	Testing performed at cold shutdown.	SU7-SR03	5.1	
14.2.12.3.39.2c	192	PR2	Testing performed at hot shutdown.	SU7-SR04	5.1	
14.2.12.3.39.3	192	TM1	At CS dummy cable ins. into each thimble	SU7-SR03	6.4	
14.2.12.3.39.3	192	TM2	At HS detectors inserted into thimbles.	SU7-SR04	6.6	
14.2.12.3.39.4	192	AC	Inc ins sys capable of taking a flux map	SU7-SR04	9.2	3
14.2.12.3.40	193	TI	Biological Shield Testing	SU7-0016	-----	
14.2.12.3.40.1a	193	OB	Measure & record radiation levels.	SU7-0016	1.2	
14.2.12.3.40.1b	193	OB	Determine where shielding is deficient.	SU7-0016	1.3	
14.2.12.3.40.1c	193	OB	Ensure personnel will not be overexposed	SU7-0016	1.4	
14.2.12.3.40.2a	193	PR	Instrument calibration complete.	SU7-0016	5.6	
14.2.12.3.40.2b	193	PR	Reactor power levels attained.	SU7-0016	5.5	
14.2.12.3.40.3	193	TM	Neutron & gamma ray surveys conducted.	SU7-0016	6.1	
14.2.12.3.40.4	193	AC1	Neutron & gamma ray surveys complete.	SU7-0016	9.1	
14.2.12.3.40.4	193	AC2	Implement admin controls per 10 CFR 20	SU7-0016	9.1	22

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14.2.12.3.41	194	TI	Natural Circulation Test	SU7-0024		
14.2.12.3.41.1	194	OB1	Show time required to stabilize nat circ	SU7-0024	1.1	
14.2.12.3.41.1	194	OB2	Show core flow distribution.	SU7-0024	1.2	
14.2.12.3.41.2a	194	PR	Low power physics testing complete.	SU7-0024	5.2	
14.2.12.3.41.2b	194	PR	Instrumentation installed & calibrated.	SU7-0024	5.0	
14.2.12.3.41.2c	194	PR	Plant operation at SS cond. at 3% power.	SU7-0024		28
14.2.12.3.41.3	194	TM1	Reactor coolant pumps tripped at 3%.	SU7-0024	6.5	
14.2.12.3.41.3	194	TM2	Transients are monitored.	SU7-0024	6.11	
14.2.12.3.41.3	194	TM3	Estab. of natural circulation verified.	SU7-0024	6.12	
14.2.12.3.41.4	194	AC1	Nat. circ. has been demonstrated.	SU7-0024	9.1.1	
14.2.12.3.41.4	194	AC2	Meas. core T no >than RCS T per design	SU7-0024	9.1.2	
14.2.12.3.42	195	TI	Loss of Heater Drain Pump Test	SU7-0017	-----	
14.2.12.3.42.1	195	OB	Verify response to loss of htr drn pump.	SU7-0017	1.1	
14.2.12.3.42.2	195	PR	Plant operating at SS cond. at 90% pwr.	SU7-0017	5.2	
14.2.12.3.42.3	195	TM1	Heater drain pumps tripped.	SU7-0017	6.7	
14.2.12.3.42.3	195	TM2	Plant variables recorded.	SU7-0017	6.8	
14.2.12.3.42.4a	195	AC	Reactor & turbine must not trip	SU7-0017	9.2.1	
14.2.12.3.42.4b	195	AC	Safety inj. is not initiated.	SU7-0017	9.2.2	
14.2.12.3.42.4c	195	AC1	Steam generator relief valves don't lift	SU7-0017	9.2.3	
14.2.12.3.42.4c	195	AC2	Safety valves shall not lift.	SU7-0017	9.2.3	
14.2.12.3.42.4d	195	AC1	Pzr. relief valves do not lift.	SU7-0016	9.2.4	
14.2.12.3.42.4d	195	AC2	Safety valves do not lift	SU7-0016	9.2.4	
14.2.12.3.42.4e	195	AC	No manual control req. to bring to SS.	SU7-0016	9.2.5	
14.2.12.3.43	196	TI	Cal. of Steam & FW flow Instr at Pwr tst	SU7-0018.X	X = 1 to 5	
14.2.12.3.43.1a	196	OB	Calibrate steam flow trans. agst FW flow	SU7-0018.2	1.1	3

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14.2.12.3.43.1b	196	OB	Per. cross-check ver. of FW & SF signals	SU7-0018.2	1.1	3
14.2.12.3.43.2a	196	PR	Test equipment calibrated.	SU7-0018.X	5.1	
14.2.12.3.43.2b	196	PR	Plant at steady state for each pwr level	SU7-0018.1	5.3	
14.2.12.3.43.3a	196	TM	Verify calibration of steam flow.	SU7-0018.1	6.1.2	3
14.2.12.3.43.3b	196	TM	Compare steam & FW flow values	SU7-0018.X	6.0	
14.2.12.3.43.4a	196	AC	Mismatch alm. doesn't act at 30-100% pwr	SU7-0018.X	9.3	
14.2.12.3.43.4b	196	AC1	Steam flow indication within 4% at 75%.	SU7-0018.4	9.4	
14.2.12.3.43.4b	196	AC2	Steam flow ind. within 4% at 100%.	SU7-0018.5	9.4	
14.2.12.3.43.4c	196	AC1	FW flow within 2.5% at 75 & 100%	SU7-0018.4	9.5	3
14.2.12.3.43.4c	196	AC2	Steam flow within 3.0% at 75 & 100%.	SU7-0018.4	9.6	3
14.2.12.3.44	197	TI	Nuclear Instr. Sys. Test	SU7-SE01	-----	
14.2.12.3.44.1	197	OB	verify NIS performs func. prior to CL	SU7-SE01	1.1	
14.2.12.3.44.2a	197	PR1	NIS is installed, calibrated & aligned.	SU7-SE01	5.2	
14.2.12.3.44.2a	197	PR2	NIS is operational for at least 4 hrs.	SU7-SE01	5.3	
14.2.12.3.44.2b	197	PR	Plant at ambient temp & psr.	SU7-SE01	5.4	
14.2.12.3.44.3a	197	TM1	SR indicator alarms function.	SU7-SE01	6.2, 6.3	
14.2.12.3.44.3a	197	TM2	IR indicator alarms function.	SU7-SE01	6.4	
14.2.12.3.44.3b	197	TM1	Pwr. range test proper meter ind.	SU7-SE01	6.5	
14.2.12.3.44.3b	197	TM2	Power range func. of comparator.	SU7-SE01	6.6	
14.2.12.3.44.3b	197	TM3	Power range func. of rate circ.	SU7-SE01	6.7	
14.2.12.3.44.3c	197	TM1	High voltage circuitry of SR tested.	SU7-SE01	6.1.1	
14.2.12.3.44.3c	197	TM2	HV circ. of inter. range chan. tested.	SU7-SF01	6.1.2	
14.2.12.3.44.4	197	AC1	Control & indication func. verified.	SU7-SF01	9.2.1	
14.2.12.3.44.4	197	AC2	Reactor trip stpt of the NISS verified.	SU7-SF01	9.1.1	

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14.0			CHAPTER 14			
14.2.2.3	4		Staff involved in initial testing.	ADM 01-70	3.0	
14.2.4.5	10	(1)	Plant Mgr. has overall test program resp	ADM 01-70	3.1	
14.2.4.5	10	(2)	Staff ensures plant safe while testing.	ADM 01-70	3.3	
14.2.4.5	10a		PSRC review program before next plateau.	ADM 01-70	5.2.2	
14.2.8	10b		Use of Rx operating & test experience.	ADM 01-31	All	
18.0			CHAPTER 18			
18.1.1.2	3		Human factors review prior to core load.			7
18.1.18.2	3		Natural Circulation Testing.			10
3.0			CHAPTER 3			
Appendix 3A	1	-----	Personnel training /certification.	ADM 05-402		
Appendix 3a	3a	-----	Staff qualified to ANSI/ANS 3.1	ADM 01-70	5.0	
Table 9.3-1	----	-----	Fire Prot. available prior to fuel load.	ADM 13-103	ALL	11
Vol 5 Q640.3wo	1		Review test results prior to excd. 25%.	SU7-S012	5.1	S008

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RG 1.68 App A 2.0	13	Ensure Tech specs are satisfied.	ADM 02-300		
RG 1.68 App A 2.0	13	Monitor flux during core loading.	SU7-0002	6.1	
RG 1.68 App A 2.0	13	Ensure prerequisites are satisfied.	SU7-S009	5.1	
RG 1.68 App A 2.0	13	Periodic data collection	SU7-0002	6.1	
RG 1.68 App A 2.0	13	Fuel/Contr component properly installed.	SU7-S009	6.2	
RG 1.68 App A 2.0	13	Pred. of Rho to evaluate resp to loading	SU7-0001	5.5	
RG 1.68 App A 2.0	13	Crit/action for unexpected response.	SU7-S009	4.1 X	
RG 1.68 App A 2.0	14	Requirements for ops of sys/component	SU7-S008	ALL	
RG 1.68 App A 2.0	14	SRO supervises core loading	SU7-S009	4.1	
RG 1.68 App A 2.a	14	Verify S/D margin of fully loaded core.	SU7-0001	7.1	
RG 1.68 App A 2.b	14	CR w/drawal & insert speeds	SU7-SF02	6.0	
RG 1.68 App A 2.b	14	CR w/drawal and insert sequences	SU7-SF02	6.0	
RG 1.68 App A 2.b	14	CR position indicator	SU7-SF04.X	6.0	X=1,2
RG 1.68 App A 2.b	14	CR protective interlocks	SU7-SF01.3	6.0	
RG 1.68 App A 2.b	14	CR control functions	SU7-SF02	6.0	
RG 1.68 App A 2.b	14	CR alarms	SU7-SFOX	6.0	3
RG 1.68 App A 2.b	14	CR scram time: HZP & no-flow	SU7-SF03.1	6.0	
RG 1.68 App A 2.b	14	CR scram time: HZP w/flow	SU7-SF03.2	6.0	
RG 1.68 App A 2.b	14	CR scram time: hot w/flow.	SU7-SF03.3	6.0	
RG 1.68 App A 2.b	14	CR scram time: hot & no-flow.	SU7-SF03.4	6.0	
RG 1.68 App A 2.b	14	Scram time w/in 2 sigma limit	SU7-SF03.X	6.0	X=1-4
RG 1.68 App A 2.b	14	Verify proper ops of decelerating device	SU7-SF03.X	9.0	X=1-4
RG 1.68 App A 2.b	14	Retest at least 3 times if a rod fails	SU7-SF03.X	6.0	X=1-4
RG 1.68 App A 2.c	14	Demonstrate proper trip points and logic	SU3-SB01		

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RG 1.68 App A 2.c	14	Demonstrate ops of scram breaker & valve	STS IC-746		
RG 1.68 App A 2.c	14	Demonstrate ops of manual scram fn.	SU7-SF03.X	6.0	X=1-4
RG 1.68 App A 2.d	14	RCS leak rates are w/in limits	STS BB-004		
RG 1.68 App A 2.e	14	RCS Boron concentration sampling	SU7-SJ01	6.3, 6.4	
RG 1.68 App A 2.f	14	RCS flow test/vibrations are acceptable	SU3-BB14		
RG 1.68 App A 2.f	14	RCS pressure differential as designed			30
RG 1.68 App A 2.f	14	Piping reactions are as designed	SU3-BB14		
RG 1.68 App A 2.f	14	Measure flow coastdown:loss of flow test	SU7-BB06	6.3	
RG 1.68 App A 2.g	14	Cal of SR instrumentation	SU7-SE02.1	6.2	
RG 1.68 App A 2.g	14	Verify proper ops of SR & IR alarms	SU7-SE01	6.0	
RG 1.68 App A 2.g	14	Verify ops of SR & IR protective funct.	SU7-SE01	6.0	
RG 1.68 App A 2.h	14	Mech. tests of incore monitors.	SU7-SR03	6.0	
RG 1.68 App A 2.h	14	Electrical tests of incore monitors.	SU7-SR04	6.0	
RG 1.68 App A 3.0	14	INITIAL CRITICALITY			
RG 1.68 App A 3.0	14	Neut flux continuously monitored	SU7-S011	6.3	
RG 1.68 App A 3.0	14	Neut count rate >1/2 before S/U	SU7-S011	6.3.2	
RG 1.68 App A 3.0	14	Signal-to-noise ratio >2	SU7-SC01	9.5	
RG 1.68 App A 3.0	14	Required sys are operable and ready	SU7-S011	5.0	
RG 1.68 App A 3.0	14	CR w/drawn before Boron dilution	SU7-S011	6.3	
RG 1.68 App A 3.0	14	CR insertion limits are observed	STS CR-001		
RG 1.68 App A 3.0	14	Criticality predictions provided	SU7-S011	5.17	
RG 1.68 App A 3.0	14	Crit/action if plant deviates from pred.	SU7-S011	6.3	
RG 1.68 App A 3.0	14	Rx protection sys operable & ready	SU7-S011	5.0	8
RG 1.68 App A 3.0	14	Emerg S/D sys operable & ready	SU7-S011	5.0	8
RG 1.68 App A 3.0	14	Normal CR w/drawal sequence	SU7-S011	6.3.0	

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RG 1.68 App A 3.0	15	Ensure Period is > 30 sec	SU7-S011	6.3	
RG 1.68 App A 4.0	15	LOW-POWER TESTING			
RG 1.68 App A 4.0	15	Low power test < 5%	SU7-S011	6.4	
RG 1.68 App A 4.a	15	Boron & MTC over applicable ranges	SU7-S011	6.6	
RG 1.68 App A 4.b	15	CR & CR bank worth ensure 1 and 2 below	SU7-S011	6.6	
RG 1.68 App A 4.b	15	1: In accordance with design prediction	SU7-S011	9.2.4	
RG 1.68 App A 4.b	15	2: Confirm rod insertion limits	SU7-S011	9.2.4	
RG 1.68 App A 4.c	15	Pseudo-rod-ejection test	SU7-S011	6.6	
RG 1.68 App A 4.d	15	Adequate overlap of SR & IR	SU7-SE02.3	6.0	
RG 1.68 App A 4.d	15	Proper ops of SR&IR protective function	SU7-SE01	6.0	
RG 1.68 App A 4.d	15	Proper ops of SR&IR alarm	SU7-SE01	6.0	
RG 1.68 App A 4.e	15	Flux distr. for comparison w/ prediction	SU7-S011	9.0	
RG 1.68 App A 4.f	15	Neut. and gamma rad surveys	SU7-0016	6.0	
RG 1.68 App A 4.g	15	Resp. of process & effluent rad. monitor	S03-SP01		
RG 1.68 App A 4.h	15	Demonstrate capability of Chem contr sys	SU4-RM01		
RG 1.68 App A 4.i	15	CR w/drawal and insert sequence	SU7-SF02	6.0	
RG 1.68 App A 4.i	15	Demonstrate ops of CR block fn.	SU7-SF01.3	6.0	
RG 1.68 App A 4.j	15	Capability of prim containment vent. sys	SU7-0907.2	6.0	
RG 1.68 App A 4.k	15	Demonstate ops of steam-driven Aux sys	STS AL-103		
RG 1.68 App A 4.l	15	Ops of main & branch steam line valves	STS AB-201		
RG 1.68 App A 4.l	15	Demonstrate ops main steam bypass valves	STS AB-205		
RG 1.68 App A 4.m	15	Demonstate ops of MSIV leakage contr	N/A		
RG 1.68 App A 4.n	15	Demonstate ops of contr room computer	SU8-RJ0X	X=1,2	5
RG 1.68 App A 4.o	15	CR scram time at rate temp.	SU7-SF03.X		X=3,4

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RG 1.68 App A 4.p	15	Ops of PZR relief valves	STS BB-204		
RG 1.68 App A 4.p	15	Ops of main steam relief valves	STS AB-205		
RG 1.68 App A 4.q	15	Ops of RHR	STS EJ-100		
RG 1.68 App A 4.q	15	Ops of steam dump valves	STS AB-205		
RG 1.68 App A 4.q	15	Ops of turbine bypass valves	STS AB-205		
RG 1.68 App A 4.r	15	Ops of RCS purification & cleanup sys	STS CH-002		
RG 1.68 App A 4.s	15	Vibration meas. of RCS & Rx vessel	SU3-BB14		
RG 1.68 App A 4.t	16	Natural circulation test	SU7-0024	6.0	
RG 1.68 App A 4.u	16	Ops of major/principal contr sys as appr	SU7-AB01.1	6.0	
RG 1.68 App A 5.0	16	POWER ASCENSION TESTS			
RG 1.68 App A 5.a	16	Power coefficient at 25%	SU7-0008.1	6.0	
RG 1.68 App A 5.a	16	Power coefficient at 50%	SU7-0008.2	6.0	
RG 1.68 App A 5.a	16	Power coefficient at 75%	SU7-0008.3	6.0	
RG 1.68 App A 5.b	16	Nuc design parameters at 25%	SU7-SR02	6.0	
RG 1.68 App A 5.b	16	Nuc design parameters at 50%	SU7-SR02	6.0	
RG 1.68 App A 5.b	16	Nuc design parameters at 75%	SU7-SR02	6.0	
RG 1.68 App A 5.b	16	Nuc design parameters at 100%	SU7-SR02	6.0	
RG 1.68 App A 5.a	16	Power coefficient at 100%	SU7-0008.4	6.0	
RG 1.68 App A 5.c	16	N/A to PWR.			
RG 1.68 App A 5.d	15	Controlling Xenon transients.			32
RG 1.68 App A 5.g	17	CR Sequence	SU7-SF02	6.0	
RG 1.68 App A 5.g	17	CR w/drawal block	SU7-SF01.3	6.0	
RG 1.68 App A 5.e	16	Psuedo-rod-ejection.	SU7-SF09.X	6.0	X=1,2
RG 1.68 App A 5.f	16	High worth rod insert & w/drawal at 50%.	SU7-SF09.2	6.0	
RG 1.68 App A 5.h	17	N/A			5

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RG 1.68 App A 5.f	16	High worth rod insert & w/drawal at 50%.	SU7-SF09.2	6.0	
RG 1.68 App A 5.h	17	N/A			5
RG 1.68 App A 5.i	17	In-&Ex-core inst detect rod misalign 50%			5
RG 1.68 App A 5.i	17	In-&Ex-core inst rod misalignment @ 100%			5
RG 1.68 App A 5.j	17	N/A to PWR.			
RG 1.68 App A 5.k	17	Ops of ECCS high-pres injection.	SU3-EM02		
RG 1.68 App A 5.l	17	Capability of RHR @ 25%	STS EJ-100		
RG 1.68 App A 5.m	17	RCS ops in accordance with design.			5
RG 1.68 App A 5.l	17	Turbine bypass system	SU7-AB02	6.0	
RG 1.68 App A 5.l	17	Atm steam dump valves	STS AB-205		
RG 1.68 App A 5.l	17	N/A to PWR			
RG 1.68 App A 5.l	17	Turbine bypass system	SU7-AB02	6.0	
RG 1.68 App A 5.n	17	Baseline data for LPMS.	SU3-S901		
RG 1.68 App A 5.m	17	RCS ops in accordance with design.			5
RG 1.68 App A 5.l	17	Atm steam dump valves	STS AB-205		
RG 1.68 App A 5.o	17	Proper resp Rx coolant leak det. sys.			3
RG 1.68 App A 5.l	17	N/A to PWR			
RG 1.68 App A 5.p	17	Vibration monitoring Rx internals.	SU3-BB14		
RG 1.68 App A 5.q	17	Ops failed fuel detection sys at 25%.	CHM 03-070		
RG 1.68 App A 5.q	17	Ops failed fuel detection sys at 100%.	CHM 03-070		
RG 1.68 App A 5.r	17	Computer receives correct input at 25%			5, 35
RG 1.68 App A 5.r	17	Computer receives correct input at 50%.			5, 35
RG 1.68 App A 5.r	17	Computer receives correct input at 75%.			5, 35
RG 1.68 App A 5.r	17	Computer receives correct input at 100%.			5, 35
RG 1.68 App A 5.s	17	Calibrate & verify T-ave contr. at 25%	SU7-SF06.2	6.0	

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RG 1.68 App A 5.s	17	Calibrate & verify T-ave contr. at 50%	SU7-SF06.3	6.0	
RG 1.68 App A 5.s	17	Calibrate & verify T-ave contr. at 75%.	SU7-SF06.4	6.0	
RG 1.68 App A 5.s	17	Calibrate & verify T-ave contr. at 100%.	SU7-SF06.6	6.0	
RG 1.68 App A 5.s	17	Cal & verify auto Rx contr @ 25%	SU7-SF07.2	6.0	
RG 1.68 App A 5.s	17	Calibrate & verify auto Rx contr at 50%.	SU7-SF07.3	6.0	
RG 1.68 App A 5.s	17	Cal & verify auto Rx contr @ 75%	SU7-SF07.4	6.0	
RG 1.68 App A 5.s	17	Calibrate & verify auto Rx contr at 100%	SU7-SF07.5	6.0	
RG 1.68 App A 5.s	17	Calibrate & verify boron add sys at 25%.			9
RG 1.68 App A 5.s	17	Calibrate & verify boron add sys at 50%.			9
RG 1.68 App A 5.s	17	Calibrate & verify boron add sys at 75%.			9
RG 1.68 App A 5.s	17	Calibrate & verify boron add sys at 100%			9
RG 1.68 App A 5.s	17	Cal & verify integrate contr at 25%	SU7-SF06.2	6.0	
RG 1.68 App A 5.s	17	Cal & verify integrate contr at 50%	SU7-SF07.3	6.0	
RG 1.68 App A 5.s	17	Cal & verify integrate contr at 75%	SU7-SF07.4	6.0	
RG 1.68 App A 5.s	17	Cal & verify integrate contr @ 100%	SU7-SF07.5	6.0	
RG 1.68 App A 5.s	17	Calibrate & verify p2r contr. sys at 25%	SU7-0009.1		
RG 1.68 App A 5.s	17	Calibrate & verify p2r contr sys at 50%			6
RG 1.68 App A 5.s	17	Calibrate & verify p2r contr sys at 75%	SU7-0009.2		
RG 1.68 App A 5.s	17	Calibrate & verify p2r contr sys at 100%	SU7-0009.3		
RG 1.68 App A 5.s	17	Verify main, aux. feedwater @ 25%	SU7-0018.2	6.0	
RG 1.68 App A 5.s	17	Verify main, aux. feedwater @ 50%	SU7-0018.3	6.0	
RG 1.68 App A 5.s	17	Verify main, aux. feedwater @ 75%	SU7-0018.4	6.0	
RG 1.68 App A 5.s	17	Verify main, aux. feedwater @ 100%	SU7-0018.5	6.0	
RG 1.68 App A 5.s	17	Verify steam pres contr at 25%	SU7-AB01.3	6.0	
RG 1.68 App A 5.s	17	Verify steam pres contr at 50%			6

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RG 1.68 App A 5.s	17	Verify steam pres contr at 75%	SU7-AB01.5		
RG 1.68 App A 5.s	17	Verify steam pres contr at 100%	SU7-AB01.6		
RG 1.68 App A 5.s	17	Verify makeup/letdown contr sys at 25%			9
RG 1.68 App A 5.s	17	Verify makeup/letdown contr sys at 50%			9
RG 1.68 App A 5.s	17	Verify makeup/letdown contr sys at 75%			9
RG 1.68 App A 5.s	17	Verify makeup/letdown contr sys at 100%			9
RG 1.68 App A 5.t	17	Ops of p2r & steam relief valves	STS AB-201		5
RG 1.68 App A 5.t	17	Ops of atmospheric steam dump valves.	STS AB-205		5
RG 1.68 App A 5.t	17	Ops of turbine bypass valves	SU7-AB02	6.0	
RG 1.68 App A 5.t	17	Ops of turbine stop & contr valves			5
RG 1.68 App A 5.u	17	Response time of MSIV and branch IV	SU3-AB04		5,7
RG 1.68 App A 5.v	17	Verify main steam & feedwater sys at 25%	SU7-0018.2	6.0	
RG 1.68 App A 5.v	17	Verify main steam & feedwater sys at 50%	SU7-0018.3	6.0	
RG 1.68 App A 5.v	17	Verify main steam & feedwater sys at 75%	SU7-0018.4	6.0	
RG 1.68 App A 5.v	17	Verify main steam & feedwater sys 100%	SU7-0018.5	6.0	
RG 1.68 App A 5.w	17	Demonstrate BOL margins for cooling sys	SU7-0907.6	6.0	
RG 1.68 App A 5.x	17	Demonstrate margins aux sys used w/ESF	SU7-0907.6	6.0	
RG 1.68 App A 5.y	17	Cal & verify calorimetric instr @ 25%	SU7-SC03.2	6.0	
RG 1.68 App A 5.y	17	Cal & verify calorimetric inst @ 50%.	SU7-SC03.4	6.0	
RG 1.68 App A 5.y	17	Cal & verify calorimetric @ 75%.	SU7-SC03.5	6.0	
RG 1.68 App A 5.y	17	Cal & verify calorimetric @ 100%.	SU7-SC03.8	6.0	
RG 1.68 APP A 5.y	17	Cal & verify RCS flow inst 25%.	SU7-SC03.2	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS flow inst. 50%.	SU7-SC03.4	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS inst. 75%.	SU7-SC03.5	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS flow instr @ 100%	SU7-SC03.8	6.0	

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RG 1.68 App A 5.y	17	Cal & verify RCS instr @ 25%	SU7-SC03.2	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS instr @ 50%	SU7-SC03.4	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS instr @ 75%	SU7-SC03.5	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS instr @ 100%	SU7-SC03.6	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS temp instr @ 25%	SU7-SF06.2	6.1	
RG 1.68 App A 5.y	17	Cal & verify RCS temp instr @ 50%	SU7-SF06.3	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS temp instr @ 75%	SU7-SF06.4	6.0	
RG 1.68 App A 5.y	17	Cal & verify RCS temp instr @ 100%	SU7-SF06.6	6.0	
RG 1.68 App A 5.y	17	Cal & verify incore/excore instr @ 25%	SU7-SE02.4	6.4	
RG 1.68 App A 5.y	17	Cal & verify incore/excore instr @ 50%	SU7-SE02.6	6.4	
RG 1.68 App A 5.y	17	Cal & verify incore/excore instr @ 75%	SU7-SE02.7	6.4	
RG 1.68 App A 5.y	17	Cal & verify incore/excore instr @ 100%	SU7-SE02.9	6.4	
RG 1.68 App A 5.z	18	Demonstrate process & effluent rad detect	SU3-SP01		
RG 1.68 App A 5.aa	18	Ops of chem & radiochem contr sys @ 25%			9
RG 1.68 App A 5.aa	18	Ops of chem & radiochem contr sys @ 50%			9
RG 1.68 App A 5.aa	18	Ops of chem & radiochem contr sys @ 75%			9
RG 1.68 App A 5.aa	18	Ops of chem & radiochem contr sys @ 100%			9
RG 1.68 App A 5.bb	18	Neut. & gamma ray survey at 50%	SU7-0016	6.0	
RG 1.68 App A 5.bb	18	Neut & gamma ray survey at 100%	SU7-0016	6.0	
RG 1.68 App A 5.cc	18	Ops of gas/liq waste processing	SU3-HA01		5
RG 1.68 App A 5.dd	18	Remote shut down of Rx	SU7-0014	6.0	
RG 1.68 App A 5.ee	18	Ops of prim contain. inert. & purg. sys	SU3-GT01		
RG 1.68 App A 5.ff	18	Ops of important vent/AC sys at 50%	SU7-0907.4	6.0	
RG 1.68 App A 5.ff	18	Ops of important vent/AC sys at 100%	SU7-0907.6	6.0	
RG 1.68 App A 5.gg	18	N/A			

Document	PG	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
RG 1.68 App A 5.hh	18	Load swing test at 25%	SU7-0009.1	6.0	
RG 1.68 App A 5.hh	18	Load swing test at 50%			6
RG 1.68 App A 5.hh	18	Load swing test at 75%	SU7-0009.2	6.0	
RG 1.68 App A 5.hh	18	Load swing test at 100%	SU7-0009.3	6.0	
RG 1.68 App A 5.ii	18	Plant response to limiting RCP trip 100%	N/A		6
RG 1.68 App A 5.jj	18	Resp to loss of turb-gen/offsite power	N/A		6
RG 1.68 App A 5.kk	18	Resp to loss feedwater heaters	SU7-0017	6.0	
RG 1.68 App A 5.ll	18	Resp to turbine trip at 100%	SU7-0011	6.0	
RG 1.68 App A 5.mm	18	Resp to auto closure of all MSIV	N/A		6
RG 1.68 App A 5.nn	18	Resp to full load rejection	SU7-0011	6.0	
RG 1.68 App A 5.oo	18	Verify piping & component expansion	SU7-0015	6.0	
RG 1.68 App C 2.a.0	21	PRESEQS TO FUEL LOAD			
RG 1.68 App C 2.a.1	21	Duties are specified			7
RG 1.68 App C 2.a.2	21	Evac alarms & vent contr are operable	SU7-SE01	6.2.9	
RG 1.68 App C 2.a.3	21	Status of systems is specified	SU7-S009	5.0	
RG 1.68 App C 2.a.4	21	Inspection of fuel	SU7-S009	5.15	
RG 1.68 App C 2.a.5	21	Nuc instr is cal & operable	SU7-SE01	6.0	
RG 1.68 App C 2.a.5	21	Instr properly located	SU7-0001	6.0	
RG 1.68 App C 2.a.5	21	Audible indication	SU7-0002	4.4	
RG 1.68 App C 2.a.6	21	Nuc instr response check	SU7-SC01	6.0	
RG 1.68 App C 2.a.7	21	Status of containment is specified	SU7-S009	5.21	
RG 1.68 App C 2.a.8	21	Status of Rx vessel is specified	SU7-S009	5.0	
RG 1.68 App C 2.a.9	21	Min vessel water level is specified	SU7-S009	5.9	
RG 1.68 App C 2.a.10	21	Coolant circulation is specified	SU7-S009	5.12	
RG 1.68 App C 2.a.11	21	Emerg boron addition sys is operable	SU3-SA03		

Document	PG	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
RG 1.68 App C 2.a.13	22	Status of protection equip verified	SU7-S009	5.0	
RG 1.68 App C 2.a.14	22	RCS water quality	SU7-S009	5.9	
RG 1.68 App C 2.a.15	22	Fuel loading boron concentration	SU7-S009	5.11	
RG 1.68 App C 2.b.0	22	PROCEDURE DETAIL			
RG 1.68 App C 2.b.1	22	Loading sequence	SU7-0001	6.0	
RG 1.68 App C 2.b.2	22	Display maintenance	SU7-0001	6.0	
RG 1.68 App C 2.b.3	22	Proper seat & orientation of assemblies	SU7-S009	6.2	
RG 1.68 App C 2.b.3	22	Visual check of each loaded assembly	SU7-S009	6.2	
RG 1.68 App C 2.b.4	22	N/A to PWR			
RG 1.68 App C 2.b.5	22	Nuc instr & nuc source requirements	SU7-0002	5.0,6.0	
RG 1.68 App C 2.b.6	22	Flux monitoring	SU7-0002	6.0	
RG 1.68 App C 2.b.7	22	Expected subcritical behavior	SU7-0002	6.3.1	
RG 1.68 App C 2.b.8	22	N/A to PWR			
RG 1.68 App C 2.b.9	22	Frequency of boron sampling	SU7-0001	6.1.3.1	
RG 1.68 App C 2.b.10	22	Flux monitoring during suspension	SU7-0002	App B	
RG 1.68 App C 2.b.11	22	Maintenance of Voice comm	SU7-0001	6.0	
RG 1.68 App C 2.b.12	22	Min crew required for fuel loading			7
RG 1.68 App C 2.b.12	22	Min of two where fuel is handled			7
RG 1.68 App C 2.b.13	22	Crew work time < 12 hrs	ADM 01-023		
RG 1.68 App C 2.b.14	22	Approvals required for procedure changes	ADM 01-022		
RG 1.68 App C 2.c.0	22	LIMITATIONS & ACTIONS			
RG 1.68 App C 2.c.1	22	Criteria for stopping fuel loading	SU7-S009	4.1	
RG 1.68 App C 2.c.2	22	Criteria for emeg boron injection	SU7-S009	4.4	
RG 1.68 App C 2.c.3	22	Criteria for containment evac	SU7-S009	4.1.5	
RG 1.68 App C 2.c.4	22	Action if fuel damaged	EMG-E6		

Document	PG	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
RG 1.68 App C 2.c.5	22	Action/approvals for resuming loading	SU7-S009	4.3	
RG 1.68 App C 4.0	23	POWER ASCENSION TEST PROCEDURES			
RG 1.68 App C 4.a	23	Conduct all test at thier plateau	SU7-S008	6.0	
RG 1.68 App C 4.b	23	Examine radial flux	SU7-SR0X	6.0	X=1,2
RG 1.68 App C 4.c	23	Rx power by heat balance	SU7-SC03.X	6.0	X=1-6
RG 1.68 App C 4.d	23	Reset high flux trip prior to ascending	SU7-S008	4.4.1	
RG 1.68 App C 4.e	23	Ops of plant systems	SU7-0907.X	6.0	X=1-6
RG 1.68 App C 4.f	23	Check for unexpected radiation	SU7-0016	6.0	
RG 1.68 App C 4.g	23	RCS leak check	STS BB-004		
RG 1.68 App C 4.h	23	Review of test at test plateaus	SU7-S008		

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
Q640.11.(2).2.a			Shutdown margin verified by Cb	SU7-0001	7.1	
Q640.11.(2).2.b			Control rod withdraw/insertion spds,seq	SU7-SF02	6.0	
Q640.11.(4).4.b			Verify rod worths	SU7-SF08	6.6	
Q640.11.(4).4.c			Pseudo-rod-ejection test	SU7-SF09	6.0	
Q640.11.(4).4.e			Determination of flux distribution	SU7-SR01.2	6.0	
Q640.11.(4).4.f			Neutron and gamma rad survey determin	SU7-0016	6.0	
Q640.11.(4).4.j			Demonstrate capability of ctmnt vent sys	SU7-0907	7.1	
Q640.11.(4).4.t			Natural circulation test	SU7-0024	6.0	
Q640.11.(5).5.bb			Conduct neutron and gamma surveys	SU7-0016	6.0	
Q640.11.(5).5.f			Have a rod drop test	SU7-SF03.X	6.0	3
Q640.11.(5).5.ff			Demon ventilation sys maintain des temp	SU7-0907	7.1	
Q640.11.(5).5.g			Control rod protective interlocks checkd	SU7-SF01.2	6.0	
Q640.11.(5).5.i			Verify operab of rod pos ind sys	SU7-SF04.1	6.0	3
Q640.11.(5).5.i			Verify rod misalignment > tech specs	SU7-SF09.2	9.1.4	
Q640.11.(5).5.kk			Resp when FW htrs bypassed w/i design	SU7-0017	6.0	
Q640.11.(5).5.l			Demonstrate capab to remove decay heat	SU7-AB02	6.0	
Q640.11.(5).5.mm			Demon plant reps for MSIV close at 100%	SU7-0011	6.0	
Q640.11.(5).5.nn			Demon plant reps from gen trip at 100 %	SU7-0011	6.0	
Q640.11.(5).5.s			Verify AFS,hotwell lev,stm pres ctrl sys	SU7-0011	6.0	3
Q640.11.(5).5.v			Verify perf of MS and FW sys	SU7-0907	7.1	3
Q640.11.(5).5.w			Verify concrete temp at penetrations	SU7-0907	7.1	
Q640.11.(5).5.y			Verify proper oper of Incore Instrument	SU7-SR04	6.0	
Q640.11.(5).5.y			Verify oper of instr/sys for heat bal:ce	SL7-SC03	6.0	
Q640.11.1.b.(1)	--	--	Control rod drive system operation test.	SU7-SF01.4	6.0	
Q640.11.1.e.(5)	--	--	Steam extraction operability test.	SU7-0907	6.1	

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
Q640.11.1.j.(11)	--	--	Test traversing incore probe system.	SU7-SR03	6.0	
Q640.11.1.j.(13)	--	--	Test incore nuclear instrumentation.	SU7-SR04	6.0	
Q640.11.1.j.(25)	--	--	Verify computer calculations = Tech spec	SU8-RJ0X	X=1,2	35
Q640.11.1.j.(5).5.r	--	--	Verify computer calculations = Tech spec	SU8-RJ0X	X=1,2	35
Q640.11.1.j.(8)	--	--	Demon rod contrl during pwr. asc. testing	SU7-SF05	6.0	
Q640.12.(16)			Derive MTC and meet acceptance criteria	SU7-0007	6.0	
Q640.12.(17)			Demon step and ramp respons at 50% power	FSAR App3A	RG1.68 R 2	
Q640.12.(18)			Rods out of 2-sigma limit drped 3 times	SU7-SF03.x	6.0	3
Q640.12.(2)			Final acceptance of FW pumps	SU7-AB01.4	6.0	
Q640.18			Plant vent sys main ESF gear w/i design	SU7-0907	7.1	
Q640.2	--	(a)	Source range greater than 1 or 2 cps.	SU7-S011	6.3.2	
Q640.2	--	(b)	Prior to startup commencement.	SU7-S011	6.3.2	
Q640.2	--	--	Signal to noise ratio greater than two.	SU7-SC01	9.5	
Q640.2	--	--	Predict estimated critical conditions.	SU7-S011	6.3	
Q640.2	--	--	Approach to criticality less than 1 dpm.	SU7-S011	6.3	
Q640.29			Evacu alarm heard in high noise areas	SU7-0907	6.2	

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11.3-3 TABLE	0		GASEOUS WASTE PROC INST DESIGN PARAMS	SU3-HA01		
11.5.2.1.5	4		RAD MONITOR POST-REFUELING CALIBRATION			8,16
18.2.1.1	3		RC VENT VLVS TESTED IAW ASME SEC XI			13
18.2.17.6.2	75		PORV PID CONTROLLER LOGIC	CF18 REV 6		
3.1.7	37		CTMT ISOLATION VALVE OP TESTING	STS KJ-001		13,18
4.4.3.5	27		LOAD FOLLOWING W/ 1 RCP OUT OF SERVICE			17
6.2.5.4	14		PERIODIC TESTING OF H2 GAS ANALYZER	STS CR-001		19
6.2.6.3	5		CLOSED SYSTEM PERIODIC TYPE A TESTS	STS-KJ-001		13,18
6.3.4.1.2	31		ACCUMULATOR CHECK VALVE TESTING			13
6.5.2.2.2	6		AUX BLDG TEMP MAINTAINED > 60 DEG F			15
7.3.8.2	39		ESFAS SYSTEM TESTING REQUIREMT(3 PGS)			20
7.6.4	4		ACCUMULATOR VLV CLOSED TIME LIMITS			13
7.7-1 TABLE	0		PLANT CONTROL SYSTEM INTERLOCKS			15
7.7.1	1		RX CNTRL SYS LOAD CHG/TEMP/PRESS CNTRL	SU7-0009.X		X=1-3
7.7.1	2		RX CNTRL SYS ALARM INDICATIONS	SU7-SF01.3	6.7.16	
7.7.1	2		RX CONTROL SYSTEM INTERLOCKS			31
7.7.1.3.3	8		ROD INSERTION LIMIT ALARMS	SU7-SF01.3	6.7.16	
8.3.1.1.2	7		ESFAS CIRCUIT BKR/CONTACTOR OPERATION	STS-KJ-001		21
8.3.2.2.1	38		BATTERY SURVEILLANCE REQUIREMENTS	STS MTXX		3
9.3.4.1.2	32		CVCS CAN MAINTAIN RCS O2 & PH IN LIMITS	STS CH-002		34
9.3.4.2.2	52		ROD SHUTDOWN LIMIT SETPOINT ALARM FOR EMG BORATION	SU7-SF01.3	6.7.16	
9.3.6.2.1	73		EVAPORATOR BORON CONCENTRATION	GEN 00-020		
9.4.3.1.2	32		MAIN STEAM TUNNEL TEMP LIMITS	SU7-0907.X	6.0	
9.4.3.1.2	32		AUX BLDG TEMPERATURE LIMITS			15
9.4.6.1.2	65		TEMP LIMITS OF AREA BELOW PRESSURIZER	SU7-0907	6.0	22

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Q492.31	1		RCP FLOW/DP TEST DATA	SU7-SC03.X	X=4,5,6	14
WC8.2.1.3	5		345 KV BREAKER REQUIREMENTS	SU5-MA01		
WC9.5.2.2.1	6		CBX BATTERY BACKUP SYSTEM			15
WC9.5.2.4	7		COMMUNICATION SYSTEM TESTING	SU4-QF01		

Document	PG	TYPE	COMMITMENT	PROCEDURE	SECTION(S)	NOTE
22.2 II.B.3	9		PASS capability demonstrated	SU3-SJ01		
22.2 II.E.1.1	15	GS6,7	AFS properly aligned	ADM 02-102		3

Footnotes

- 1) Not used.
- 2) Not used.
- 3) There are steps, sections, or procedures that also meet this commitment but space does not permit including them here.
- 4) Not used.
- 5) See FSAR Volume 11, NRC Correspondence, Section 640.
- 6) See FSAR APP 3A (Reg. Guide 1.68)
- 7) Not procedurally controlled but commitment is satisfied.
- 8) As required by Technical Specifications.
- 9) Demonstrated by continuous operation.
- 10) Covered by training.
- 11) Satisfied during testing of individual components.
- 12) System turnover verifies component testing.
- 13) ISI Pump and Valve program.
- 14) Will be included in the next revision of this procedure.
- 15) Design feature only; does not require testing.
- 16) The following STS satisfy this commitment:
 - IC-456
 - IC-457
 - IC-458
 - IC-459
 - IC-474 A/B
 - IC-475 A/B
 - IC-476 A/B
- 17) Not allowed by Technical Specifications.
- 18) See also:
 - STS BG-205
 - STS EG-201
 - STS EJ-205
 - STS EJ-206

19) See STS IC-912/913.

20) See the various I&C and Operations STS's concerning ESF.

21) Also see the following STS's concerning ESF.

KJ-005 A/B

KJ-006

IC-930

EN-004

22) This commitment is addressed in its current revision.

23) See also SU7-0001 and SU7-S009.

24) Failure to meet acceptance criteria is programmatically addressed.

25) Not procedurall controlled by an SU7.

26) HFT completed in 1984.

27) FSAR change initiated.

28) SU7-0024 is an optional test. Currently being revised with modified Westinghouse analysis.

29) Not used.

30) Generic design (i.e. Westinghouse Form Loop PWR) satisfies this commitment.

31) Included in the current revision at SU7-SF01.3/SF02.

32) Xenon oscillation is controlled by design (see FSAR 4.3.1.6 Para. 6).

33) The following STS's satisfy this commitment.

IC-450 A/B

IC-452 A/B

IC-453 A/3

IC-454 A/B

IC-455 A/B

34) Also see CHM 02-230.

35) Computer points are tested with SU8-RJ01/RJ02, which are currently being performed. During the power ascension program various points are monitored in the test procedures using computer trend blocks.